Construction News

BUILDING OPERATIONS FOR SEPTEMBER

Following is a list of contracts awarded, published by the F. W. Dodge Co., throughout the States of New England, New York, New Jersey, Pennsylvania, Maryland, Delaware, District of Columbia, Virginia, Ohio, West Virginia, Illinois, Indiana, Iowa, Wisconsin, Michigan, North and South Dakota and portions of Missouri and eastern Kansas:

January 1 to October 1, 1916	$970,251,397
January 1 to October 1, 1915	680,615,100
January 1 to October 1, 1914	579,042,100
January 1 to October 1, 1913	682,425,500
January 1 to October 1, 1912	627,477,000
January 1 to October 1, 1911	607,638,813
January 1 to October 1, 1910	633,002,305

Contracts awarded from New York State and northern New Jersey:

January 1 to October 1, 1916	$180,803,500
January 1 to October 1, 1915	120,400,500
January 1 to October 1, 1914	100,266,000
January 1 to October 1, 1913	214,106,500
January 1 to October 1, 1912	186,517,000
January 1 to October 1, 1911	183,429,000
January 1 to October 1, 1910	186,084,000

These figures for the entire territory show that to date 1916 is the largest building year for contracts awarded which we have had, and for the territory of New York State and northern New Jersey, this year is about the same as 1910, 1911 and 1912. The contracts for the larger territory during September amounted to $132,226,475, and for the smaller territory $35,718,000. These figures are against $142,000,000 for the larger territory in August, and $114,000,000 for July, and for the smaller territory of $40,000,000 in August and $29,000,000 for July, both territories showing a little falling off against August, but an increase over July.

IRON AND STEEL

Pig Iron—Below are the present quotations, with a comparison of a month and a year ago:

CINCINNATI	Oct. 5, 1916	One Month Ago	One Year Ago
No. 2 Southern foundry	$17.40	$16.90	$14.40@15.40
No. 2 Northern foundry	20.26	19.26	15.76@16.01
NEW YORK			
No. 2X Northern foundry	19.50@19.75	19.50@19.75	16.25@16.50
No. 2 plain Northern foundry	19.25@19.50	19.25@19.50	15.75@16.00
No. 2 Southern foundry†	19.50@19.75	19.25@19.75	.....
BIRMINGHAM			
No. 2 Southern foundry	14.50	14.00	12.00@12.50
CHICAGO			
No. 2 Northern foundry	18.50	18.00	14.25@14.75
PITTSBURGH			
Bessemer iron*	22.95	21.95	16.95
Basic iron*	19.95	18.95	15.95

*These prices include the freight charge from the valley to the Pittsburgh district. †Delivered tidewater, New York.

Cast-Iron Pipe—The following are prices per net ton for carload lots:

	New York	Birmingham	Chicago	St. Louis	San Francisco
4 in.	$34.50	$29.00	$34.50	$35.00	$40.00
6 in. and over	31.50	26.00	31.50	32.00	37.00

Gas pipe and 16-ft. lengths are $1 per ton extra.

Structural Material—The following are the base prices f.o.b. mill, Pittsburgh, together with the quotations per 100 lb. from warehouses at the places named:

	Pittsburgh	St. Louis	New York	Chicago	San Francisco
Beams, 3 to 15 in	$2.60@2.75	$3.30	$3.35	$3.25	$4.25
Channels, 3 to 15 in	2.60@2.75	3.30	3.35	3.25	4.25
Angles, 3 to 6 in., ¼ in. thick	2.60@2.75	3.30	3.35	3.25	4.25
Tees, 3 in. and larger	2.60@2.75	3.30	3.40	3.25	4.25
Plates	3.25@4.00	3.80	4.00	3.75	4.75

Extras on other shapes and sizes in cents per lb. are as follows:

I-beams over 15 in.	.10
Angles over 6 in., on one or both legs	.10
Angles, 3 in. on one or both legs less than ¼ in. thick	.70
Cutting to lengths, under 3 ft. to 2 ft. inclusive	.25
Cutting to lengths, under 2 ft. to 1 ft. inclusive	.50
Cutting to lengths, under 1 ft.	1.55

Track Supplies—The following prices are base per 100 lb. f.o.b. Pittsburgh for carload lots, together with the warehouse prices at the places named:

	Mill, Pittsburgh,	Chicago	St. Louis	San Francisco
Standard railroad spikes	$2.65	$3.25	$3.30	$3.40
Track bolts	3.25@3.50	4.05	Premium	3.80
Standard section angle bars	2.00	....	Premium	3.15

Steel Rails—The following quotations are per 100 lb. f.o.b. Pittsburgh and Chicago for carload or larger lots. For less than carload lots 5c. per 100 lb. is charged extra:

	Pittsburgh	Chicago
Standard bessemer rails	$33.00	$33.00
Standard openhearth rails	35.00	35.00
Light rails, 8 to 10 lb.	50.00	43.00
Light rails, 12 to 14 lb.	49.00	42.00
Light rails, 25 to 45 lb.	47.00	40.00

Old Material—The prices following are per gross ton paid to dealers and producers in New York. In Chicago and St. Louis and vicinity, the quotations are per net ton and cover delivery at the buyer's works, including frenght transfer charges:

	New York	
	Oct. 5, 1916	One Month Ago
Heavy melting steel scrap	$11.75@12.00	$11.75@12.00
No. 1 railroad wrought	19.75@20.00	18.50@18.75
Stove plate	11.50@12.00	11.50@12.00
No. 1 machinery cast	15.75@16.00	16.00@16.50
Machine shop turnings	5.00@ 5.25	4.25@ 4.50
Cast borings	7.00@ 7.50	6.75@ 7.00
Railroad malleable cast	12.00@12.50	12.00@12.50

	Chicago	
	Oct. 5, 1916	One Month Ago
No. 1 railroad wrought	$16.50@17.00	$15.50@16.00
Stove plate	9.75@10.25	9.25@ 9.75
No. 1 machinery cast	12.25@12.75	11.50@12.00
Machine shop turnings	5.50@ 6.00	5.50@ 6.00
Cast borings	6.50@ 7.00	6.25@ 6.75
Railroad malleable cast	11.50@12.00	11.25@11.75

	St. Louis	
	Oct. 5, 1916	One Month Ago
Heavy melting steel scrap	$17.50@18.00*	$15.50@16.00
No. 1 railroad wrought	18.00@18.50†	15.75@16.25
Stove plate	10.75@11.00†	9.00@ 9.50
No. 1 machinery cast	13.00@13.50†	11.25@11.75
Machine shop turnings	7.25@ 7.50†	7.25@ 7.75
Cast borings	8.25@ 8.50†	6.75@ 7.00
Railroad malleable cast	12.75@13.00†	11.00@11.50

*Gross ton. †Per net ton.

Nails—The following quotations are per keg from warehouse:

	New York	St. Louis	Chicago	San Francisco
Wire	$3.15	$3.05	$2.95	$3.50
Cut	3.15	2.95	3.05	3.85

Wire Rope—Discounts from list price on bright and galvanized are as follows:

	New York	St. Louis	Chicago	San Francisco
Galvanized	20—2½%	20—2½%	20—2½%	20%
Bright	30—2½%	30—2½%	30—2½%	30%

At this rate the net prices in New York for galvanized, 7 wires to strand, are as follows per 100 lb.:

Diameter, In.		Diameter, In.	
½	$4.40	1¼	$18.30
⅝	5.90	1⅜	20.80
¾	6.60	1½	25.60
⅞	9.50	1⅝	27.80
1	11.00	1¾	32.20

Sheets—Quotations are in cents per pound in various cities from warehouse, also the base quotation from mill:

Blue Annealed	Large Lots, Pittsburgh	St. Louis	Chicago	San Francisco	New York Oct. 5, 1916	New York 1 Year Ago
No. 10	3.00	3.45	3.40	5.00	4.25	2.20
No. 12	3.05	3.50	3.45	5.05	4.30	2.25
No. 14	3.10	3.55	3.50	5.10	4.35	2.30
Black						
Nos. 18 and 20	2.90	3.20	3.15	4.75	3.45	2.50
Nos. 22 and 24	2.95	3.15	3.20	4.80	3.50	2.55
No. 26	3.00	3.20	3.25	4.85	3.55	2.60
No. 27	3.05	3.25	3.30	4.90	3.60	2.65
No. 28	3.10	3.30	3.35	4.95	3.65	2.70
Galvanized						
No. 10	3.25	4.60	3.95	5.40	4.10	3.65
No. 12	3.35	4.60	3.95	5.50	4.25	3.80
No. 14	3.35	4.60	3.95	5.50	4.25	3.80
Nos. 18 and 20	3.65	4.60	4.15	5.95	4.55	4.05
Nos. 22 and 24	3.80	4.70	4.30	6.15	4.60	4.15
No. 26	3.95	4.70	4.45	6.30	4.70	4.20
No. 27	4.10	4.70	4.60	6.45	4.85	4.35
No. 28	4.25	4.70	4.75	6.60	5.00	4.50

Chain—Quotations below are per 100 lb.:

In.	New York Oct. 5, 1916	New York One Year Ago	Chicago	St. Louis	San Francisco
5/16	$10.10	$7.50	$9.40	$12.50	$13.50
1/2	7.55	4.95	6.85	9.00	9.75
7/16	6.55	3.95	5.85	7.50	8.50
3/8	6.00	3.40	5.30	6.75	8.00
11/32	5.80	3.20	5.15	6.65	7.75
7/16 and 15/32	5.60	3.00	5.00	6.50	7.50
9/16 and 17/32	5.50	2.90	4.90	6.40	7.50
5/8 and 19/32	5.40	2.80	4.80	6.25	7.25
11/16 and 23/32	5.30	2.70	...	6.15	7.10
1 to 1¼	5.20	2.60	...	6.00	7.00

EXTRAS TO ABOVE LIST PER 100 LB.

	For BB	For BBB
5/16 in. and ¼ in.	$1.50	$2.00
5/16 in. and larger	1.25	1.75

Pipe—The following discounts are for carload lots f.o.b. Pittsburgh:

Steel			Iron		
Inches	Black	Galvanized	Inches	Black	Galvanized
Butt Weld					
¾ to 3	69%	55½%	¾ to 1½	59%	43%
Lap Weld					
2	63%	50½%	1¼	46%	31%
2½ to 6	66%	53½%	1½	52%	38%
7 to 12	63%	49½%	2	53%	39%
13 and 14	63½%	....	2½ to 4	55%	42%
15	51%	....	4½ to 6	55%	42%
			7 to 12	54%	41%
Butt Weld, Extra Strong Plain Ends					
¾ to 1½	67%	54½%	¾ to 1½	60%	45%
2 to 3	68%	55½%			
Lap Weld, Extra Strong Plain Ends					
2	61%	49½%	1¼	48%	33%
2¼ to 4	64%	52½%	1½	53%	39%
4½ to 6	63%	51½%	2	55%	42%
7 to 8	59%	45½%	2¼ to 4	57%	45%
9 to 12	54%	40½%	4½ to 6	56%	44%
			7 to 8	50%	38%
			9 to 12	45%	33%

From warehouses at the places named the following discounts hold for steel pipe:

	Black		
	New York	Chicago	St. Louis
¾ to 3 in. butt welded	63%	64.8%	64.64%
3½ to 6 in. lap welded	59%	61.8%	61.64%
7 to 12 in. lap welded	53%	58.8%	58.64%

	Galvanized		
	New York	Chicago	St. Louis
¾ to 3 in. butt welded	47%	50.8%	50.14%
3½ to 6 in. lap welded	41%	48.8%	48.14%
7 to 12 in. lap welded	29%	44.8%	44.14%

Malleable fittings, Class B and C, from New York stock, sell at 30 and 5% from list price. Cast iron, standard size, 55%.

Plain Bars, Concrete Reinforcing—The following quotations are per 100 lb.:

		Warehouse				
		New York				
In.	Mill Shipment	Oct. 5, 1916	One Month Ago	St. Louis	Chicago	San Francisco
¾ and larger	$2.60	$3.35	$3.25	$3.24	$3.10	$4.00
⅝	2.65	3.45	3.35	3.29	3.18	4.10
½	2.70	3.50	3.40	3.34	3.23	4.20
⅜	2.85	3.75	3.65	3.49	3.40	4.50
¼	3.10	4.10	4.00	3.74	3.75	5.00

Twisted bars, 10c. extra. Cutting, 2 ft. and over, 15c. per 100 lb. extra.

Triangle Mesh—Price per 100 sq.ft. for 4 in-mesh in carload lots:

		Plain				Galvanized		
Style No.	Cross-Sec. Area per Ft. Width	New York	St. Louis	Chicago	San Francisco	New York	St. Louis	San Francisco
4	0.102	$1.53	$1.58	$1.728	$1.96	$1.74	$1.80	$2.19
5	0.077	1.21	1.25	1.361	1.56	1.38	1.42	1.73
6	0.058	.96	.99	1.082	1.23	1.09	1.13	1.36
7	0.041	.75	.77	.847	.96	.85	.88	1.06
23	0.170	2.56	2.65	2.89	3.29	2.92	3.01	3.65
24	0.142	2.20	2.29	2.545	2.83	2.51	2.60	3.14
25	0.124	1.95	2.03	2.204	2.52	2.23	2.30	2.79
26	0.110	1.76	1.85	2.008	2.29	2.03	2.10	2.54
27	0.085	1.46	1.51	1.65	1.87	1.66	1.72	2.07
28	0.066	1.21	1.25	1.324	1.55	1.38	1.42	1.72
29	0.049	.99	1.04	.972	1.28	1.13	1.18	1.42
31	0.261	3.76	3.91	5.245	4.84	4.29	4.44	5.37
32	0.225	3.27	3.39	4.726	4.20	3.73	3.85	4.66
33	0.196	2.91	3.02	3.484	3.75	3.32	3.43	4.16
34	0.140	2.24	2.32	2.562	2.88	2.55	2.64	3.19
35	0.109	1.78	1.85	2.001	2.29	2.03	2.10	2.54
36	0.075	1.31	1.37	1.342	1.69	1.50	1.55	1.87
38	0.380	5.36	5.57	6.067	6.90	6.12	6.32	7.65
39	0.325	4.62	4.80	5.824	5.94	5.27	5.45	6.39
40	0.283	4.05	4.20	5.462	5.21	4.62	4.77	5.78
41	0.208	3.13	3.21	4.533	3.97	3.52	3.65	4.40
42	0.151	2.34	2.44	2.654	3.01	2.67	2.77	3.34
43	0.101	1.67	1.73	1.992	2.14	1.90	1.97	2.37

Less than carload lots this material is about 10% higher.

Rivets—The following quotations are per 100 lb.:

	Structural				
		Warehouse			
	Mill, Pittsburgh	New York	Chicago	St. Louis	San Francisco
¾ in. and larger	$4.00	$5.25	$3.75	$4.05	$5.40
Cone Head Boiler					
¾ in. and larger	4.10	5.35	3.85	4.15	5.50
⅝ and 11/16	4.25	5.50	4.00	4.30	5.65
½ and 9/16	4.60	5.85	4.35	4.65	6.00

Lengths shorter than 1 in. take an extra of 50c. Lengths between 1 in. and 2 in. take an extra of 25c.

Expanded Metal Lath—Prices per 100 yd. for painted are as follows to contractors:

		Carload			
Gage	Weight	New York	Chicago	St. Louis	San Francisco
27	233	$18.00	$16.50	$18.00	$15.75
26	250	19.00	17.50	19.00	16.50
25	300	20.00	18.50	....	17.75
24	340	21.00	19.50	21.00	18.75
22	450	24.00	22.50	....	23.50

About 10% additional for smaller quantities. For galvanized, New York, add $8, and $5 for tuncan. Galvanized, San Francisco, add $12, and $3 for tuncan.

Steel Sheet Piling—The following price is base per 100 lb. f.o.b. Pittsburgh, with a comparison of a month and a year ago:

Oct. 5, 1916	One Month Ago	One Year Ago
$2.50@2.60	$2.50@2.60	$1.55@1.60

Freight Rates—On finished steel products in the Pittsburgh district, including plates, structural shapes, merchant steel, bars, pipe fittings, plain and galvanized wire nails, rivets, spikes, bolts, flat sheets (except planished), chains, etc., the following freight rates are effective in cents per 100 lb.

Baltimore	15.40	Minneapolis	32.90
Boston	18.90	New Orleans	30.70
Buffalo	11.60	New York	16.90
Chicago	18.90	Pacific Coast (all rail)	65.00
Cincinnati	15.80	Philadelphia	15.90
Cleveland	10.50	St. Louis	23.60
Denver	68.60	St. Paul	32.90
Kansas City	43.60		

CEMENT, BRICK AND STONE

Portland Cement—These prices are for barrels in carload lots in cotton bags:

	Oct. 5, 1916	One Month Ago	One Year Ago
New York	$1.72	$1.72	$1.52
Jersey City	1.60	1.66	1.46
Boston	1.92	1.92	1.67
Chicago	1.86	1.86	1.81
Pittsburgh	1.81	1.81	1.81
Cleveland	1.94	1.94	....
Detroit	1.95	1.90	....
Indianapolis	1.99	1.99	....
Toledo	1.99	1.99	1.74
Milwaukee	1.98	1.98	1.78
Minneapolis	2.13	2.13	1.98
Duluth	2.06	2.06	1.91
Peoria	1.98	1.94	1.69
Cedar Rapids	2.09	2.05	1.80
Davenport	2.04	1.95	1.70
St. Louis	1.85	....	....
San Francisco	2.30	2.30	....

Crushed Stone—Price for cargo or carload lots is as follows:

	1½ In.	¾ In.
New York	$0.90	$1.00
Chicago	.90	.90
St. Louis	1.00	1.00
San Francisco	1.25	1.25

Sand and Gravel—Price for cargo or carload lots is as follows:

	Gravel			
	Paving	1½ In.	¾ In.	Sand
New York	$1.25	$1.00	$1.10	$0.50 per cu.yd.
Chicago	....	.90	.90	.85 per cu.yd.
St. Louis	....	.70	.70	.60 per cu.yd.
San Francisco	1.25	1.01	1.01	1.01 per cu.yd.

Curbing—Prices per linear foot are as follows:

New York	5x16	$0.40
	5x20	.45
Chicago	6x18	.45
St. Louis	5x16	.68
San Francisco	5x16	.75
	5x20	.85

Brick—The price per 1,000 in cargo or carload lots is as follows:

	Common	Paving	
New York	$7.00	block	$26.50
		brick	17.25
Chicago	6.00		14.50
St. Louis, salmon	7.75	block	17.00
St. Louis, selected	10.50		
San Francisco	10.00	block	33.00

Paving Stone—

New York	Manhattan	$2.40	sq yd.
	Other boroughs	2.20	sq yd.
Chicago	About 4x8x5 dressed	2.15	sq.yd.
	About 4x8x5 common	1.65	sq.yd.
San Francisco	Basalt block 4x7x8	58.00	per M

Flagging—

New York	Bronx	$0.17	sq.ft.
	Manhattan	.17	sq.ft.
	Queens .....5 ft. square	.18	sq.ft.
Chicago	18 in. wide	.60	lin.ft.

MISCELLANEOUS

Flue Lining—Price per foot in cents in carload lots:

	New York				
	Oct. 5, 1916	One Year Ago	Chicago	St. Louis	San Francisco
4½x 8½ in.	10.80	4.50	12.00	11.00	12.00
4½x13 in.	14.40	6.80	16.00	15.00	18.00
8 x 8½ in	14.40	6.80	16.00	14.00	16.00
8½x13 in.	21.60	9.80	20.00	18.00	22.00
8½x18 in.	31.40	13.50	....	28.00	30.00
13 x18 in.	27.60	18.00	42.00	40.00	40.00
18 x18 in.	54.00	30.00	55.00	60.00	....

Poles—Price of Western red cedar poles is as follows:

	New York	Chicago	Denver	St. Louis
6 in. by 30 ft	$4.77	$4.07	$3.41	$4.07
7 in. by 30 ft.	5.90	5.10	4.30	5.10
7 in. by 45 ft.	7.85	6.85	5.90	6.85
8 in. by 35 ft.	9.75	8.50	7.30	8.50
7 in. by 40 ft	9.95	8.65	7.40	8.65
8 in. by 40 ft.	11.25	9.65	8.15	9.65
*8 in. by 45 ft.	14.45	12.45	10.55	12.45
*8 in. by 50 ft.	16.85	14.45	12.15	12.45

*10c. higher freight rates on account of double loads.

Lumber—Price per M in carload lots:

Square Edge and Sound Green

Southern Pine—New York:

	20 Ft. and Under	22-24 Ft.	26 Ft.	28 Ft.	30 Ft.	32 Ft.
3x 4 to 8x 8	$26.50	$27.50	$28.50	$28.50	$29.50	$29.50
3x10 to 10x10	27.50	28.50	29.50	29.50	30.50	30.50
3x12 to 12x12	32 00	33 00	34.00	34.00	35.00	35.00
3x14 to 6x14	34.00	35.00	36.00	36 00	37.00	37.00
7x14 to 14x14	34.00	35.00	36.00	36.00	37.00	37.00
3x16 to 6x16	36.00	37.00	39.00	39.00	41.00	41.00
7x16 to 16x16	36 00	37.00	39.00	39.00	41.00	41.00
3x18 to 8x18	39 00	40.00	42.00	42.00	44.00	44.00
9x18 to 18x18	39 00	40 00	42.00	42.00	44.00	44.00
4x20 to 20x20	42.00	43.00	45.00	45.00	47.00	47.00

Yellow Pine—St. Louis:

	20 Ft.	22 and 24 Ft.	26 Ft.	28 Ft.	30 Ft.	32 Ft.
3x 4 to 8x 8	$21.00	$22.00	$23 00	$24.00	$25.00	$26.00
3x10 to 10x10	22.00	23.00	24.00	25.00	26.00	27.00
3x12 to 12x12	23.50	24 50	25.50	26.50	27.50	28.50
3x14 to 6x14	25.00	26.00	27 00	28 00	29.00	30.00
7x14 to 14x14	25.00	26.00	27.00	28.00	29.00	30.00
3x16 to 6x16	27.00	28.00	29.00	30.00	31.00	32.00
7x16 to 16x16	27 00	28.00	29.00	30.00	31 00	32 00
3x18 to 18x18	29.00	30.00	31.00	32.00	33.00	34.00
8x18 to 18x18	29.00	30.00	31.00	32.00	33.00	34.00
4x20 to 20x20	33.00	34.00	35 00	36.00	37.00	38.00

Over 32 ft—Add $1 for each additional 2 ft. in length up to 40 ft. for sizes 12x12 and under; for sizes over 12x12 add $2. For merchantable add $2 to sizes 10x10 and under. For prime add $2 to the price of merchantable for all sizes.

Rough Douglas Fir, No 1 Common—More than carload lots in San Francisco—ship's tackle:

Size in Inches	15 Ft. and Under	16 to 24 Ft.	25 to 32 Ft.
3 and 4x4	$14.50	$16 00	$17.00
3 and 4x6 and 8	14.50	15.00	16.00
6x6 to 8x8	15.00	16.00	16.00
3 and 4x10	14.50	16.00	17.00
6 and 8x10	15.50	16.50	16.50
10x10	15.50	15 50	17.50
3 and 4x12	14.50	16.00	17.00
6 and 8x12	16.00	17.00	17.00
10 and 12x12	15.50	15.50	17.50
3 and 4x14	15.50	17.50	18 50
6 and 8x14	17 00	18.00	18.00
7 and 9x14	18.00	19.00	19.00
10 and 12x14	16.50	16 50	18.50
14x14	15.50	15.50	17.50
3 and 4x16	16.50	19.00	20.00
6 and 8x16	18.50	19.50	19 50
7 and 9x16	19.50	20.50	20.50
10 and 12x16	17.50	17 50	19.50
14 and 16x16	15.50	15.50	17.50
3 and 4x18	17 50	20.50	22.50
6 and 8x18	19.00	21.50	21.50
7 and 9x18	20.00	22.50	22 50
10 and 12x18	18.50	18.50	20.50
14 and 16x18	16.50	16.50	18.50
18x18	17 50	17.50	19.50
3 and 4x20	19.50	22.00	24.00
6 and 8x20	21.00	24 50	24.50
10 and 12x20	19.50	19.50	21 50
14 and 16x20	17.50	17.50	19.50
18 and 20x20	18.50	18.50	20.50

Figured on $5.50 off on $20, base price.

Asphaltum—Price per ton in packages:

	Brand	
New York	Mexican	$19.50
Chicago	Mexican	21.50
Kansas City	Mexican	21.50
Denver	California	21.50
San Francisco	California	11.50

Wood Block Paving—

Chicago	4 in. block 16 lb. treatment	$1.85 sq yd.
St. Louis	4 in. block 16 lb treatment	1.39 sq.yd.

Sewer Pipe—The following prices are in cents per foot for carload lots:

Size, In.	New York Oct. 5, 1916	New York One Year Ago	St. Louis	San Francisco
3	7 80	4.50	....	6.00
4	7.80	4.50	....	8.00
5	11.70	7.20	....	10.00
6	11.70	7.20	8.25	12 00
8	18.20	9 90	13.50	18.00
10	27.30	14 40	18.00	27.00
12	35.10	18.00	24.50	33.75
15	46.80	24.30	35.00	....
18	65.00	34.20	52.50	67.50
20	78.00	40 50	70.00	87.50
22	$1.04	54.00	84.00	$1.05
24	1.17	58.50	$1.00	1.25
27	1.755	$1.26	1.30	....
30	1.944	1.54	1.70	....
33	2.61	2.06	2.25	....
36	2.972	2 31	2.50	....

Clay Drain Tile—The following prices are per 1,000 lin ft.:

Size, In.	New York	St. Louis	Chicago	San Francisco
3	$23.00	$16.00	$15 00	$24.50
4	32.45	18.00	18.00	31.50
5	45.00	25.00	23.00	45.50
6	56 55	35.00	27.00	63.00
8	95.80	65.00	55.00	105.00

Hollow Tile—Hollow building tile price per block in cents:

	New York	Chicago	St. Louis	San Francisco
4x12x12 in.	.070	.064	.054	.07
6x12x12 in.	.098	.092	.066	.095
8x12x12 in.	.119	.108	.09	.12
10x12x12 in.	.140	.127	.15	.18
12x12x12 in.	.1750	.146	.18	.20

Fireproof partition blocks price per block in cents:

2x12x12 in.	.048	.043	.024	.055
3x12x12 in.	.048	.044	.036	.065
4x12x12 in.	.054	.047	.048	.07
6x12x12 in	.072	.64	.066	.095
8x12x12 in.	...	.87	.085	.12

Above prices are for carload lots or more.

Railway Ties—For fair-size orders, the following prices per tie hold:

	Material	7 In by 9 In. by 8 Ft.	6 In. by 8 In. by 8 Ft.
New York	Yellow Pine	$1.05	$0.90
St. Louis	White Oak	.72	.61
Chicago	White Oak	.90	.80
San Francisco	Green	.74	.53
San Francisco	Creosoted	1.34	.96

Linseed Oil—These prices are per gallon:

	New York Oct. 5, 1916	New York Three Months Ago	Cleveland Oct. 5, 1916	Cleveland Three Months Ago	Chicago Oct. 5, 1916	Chicago Three Months Ago
Raw in barrels	$0.75	$0.73	$0 76	$0 75	$0.72	$0.78
5-gal. cans	.85	.83	.86	.85	.82	.88

Boiled, 1c. per gal. additional.

White and Red Lead, in cents per pound, as follows:

	Red Dry	Red In Oil	White Dry and In Oil
100-lb. keg	10 50	11.00	10.50
25- and 50-lb. kegs	10.75	11.25	10.75
12½-lb. keg	11.00	11 50	11.00
1- to 5-lb. cans	12 50	12 50	12.50

MISCELLANEOUS METALS

Miscellaneous Metals—The present quotations in cents per pound with a comparison of practically a month and a year ago are as follows:

	New York Oct. 5, 1916	New York One Month Ago	New York One Year Ago
Copper, electrolytic (carload lots)	29.50	28.00	18 25
Tin	39.50	38.87½	33.00
Lead	7.00	6 50	4.50
Spelter	9.00	9.50	14.00
ST. LOUIS			
Lead	7.00	5.87½	....
Spelter	9.00	8.75	....

Old Metals—In New York the following are the dealers' purchasing prices in cents per pound:

	Oct. 5, 1916	One Month Ago	One Year Ago
Copper, heavy and crucible	24.00	21.75	15.00
Copper, heavy and wire	23 00	20.75	14.75
Copper, light and bottoms	19.00	17.50	12.50
Lead, heavy	5.75	5.00	3.50
Lead, tea	5.25	4.50	3.25
Brass, heavy	13.00	12.50	10.00
Brass, light	10.50	10.00	8.50
No. 1 yellow rod brass turnings	14.00	13.75	11.50
Zinc	6 75	6.25	8.00

Railway Construction in China—In addition to the large conservancy scheme which the Seims-Carey Railway and Canal Co., St. Paul, Minn., is preparing to undertake for the Chinese government, it is reported that it has just closed a contract for the construction of about 1,100 mi. of railway on a percentage basis, same to be financed by the American International Corporation, of New York. Work on the project probably will not start for another year on account of the vast amount of preliminary work necessary.

Proposed Improvement of Chilean River Port—A bill for the improvement of the river port of Lebu is under discussion in the Chilean congress. A recent number of the "Diario Illustrado" states that Manuel Jervasio Alarcon, resident in London, and Carlos Alarcon have presented a project for the improvement of this port with American capital. The plans have been prepared by Julio Delaunay, and the cost is estimated at approximately $3,000,000. The port of Lebu is near the Chilean coast and is in the region of important coal mines.

Proposed Improvement of Russian Port—The British vice-consul at Theodosia, on the Black Sea, reports that the port authorities are doing their utmost to improve the harbor. It has practically been decided to lay down new railway lines on the quay and erect four movable cranes. As soon as the war is over it is expected that Theodosia will have facilities for discharging all kinds of goods, particularly coal from the United Kingdom. It is also proposed to have a floating crane with a lifting capacity of 50 tons permanently in the port.

The Brennan Engineering Co., Delaware Bldg., 36 West Randolph St., Chicago, Ill., announces that on Aug. 1 the business was incorporated under the name of Brennan-Wahl Co.

The Pacific Tank and Pipe Co. announces that it has established offices at 318 Market St., San Francisco, Calif., where it will be pleased to welcome its customers and friends.

The Chicago Bridge and Iron Works announces the removal of its southeastern office to 805 Florida Life Bldg., Jacksonville, Fla., where it will handle its business in Alabama, Florida and Georgia. E. G. Ladd is Mgr.

Henry A. Hinter's Sons Co., Philadelphia, the successful bidders in connection with the sale of the two Philadelphia & Reading Ry. bridges over the Susquehanna River, one at Milton and the other at Sunbury, Penn., will commence to dismantle the superstructures at once.

RAILWAYS—STEAM AND ELECTRIC

Proposed Work

Maine—H. D. Eaton, Waterville, interested in Skowhegan & Athens Electric R.R.

Massachusetts—Bay State St. Ry., Boston, will extend line along Varnum Ave. to Totman St. R. S. Goff, Boston, Gen. Mgr.

Pennsylvania—Council, Coatesville, granted H. G. Rambo, H. I. Schotter and W. J. Elliott and associates, Coatesville, franchise to construct railway from Modena to Coatesville, about 10 mi. Noted Aug. 10.

Pennsylvania—Irwin-Herminie Traction Co. plans to extend line from Irwin north to Export. C. H. Bolton, Irwin, Gen. Mgr.

Pennsylvania—McDonald & Burgettstown St. Railway Co., Washington, incorporated to build electric railway in Washington County, about 15 mi. R. L. Henderson, Pittsburgh, interested.

Pennsylvania—Pennsylvania R.R. granted permission by Council, Steelton, to build 5 freight tracks along Old Pennsylvania Canal into Bethlehem Steel plant, including filling old canal and rein.-con. bridge across Spring Creek near Harrisburg. A. C. Shand, Broad St. Station, Philadelphia, Ch. Engr.

Pennsylvania—Williamsport Passenger Railway Co., Williamsport, plans to extend line to Newberry. E. H. Davis, Williamsport, Gen. Mgr.

Maryland—Surveys being made for railway to Hawkins Point, several miles below Baltimore on Patapsco River. Address R. N. Begien, Baltimore, Ch. Engr. Baltimore & Ohio Railroad Co.

Maryland—Cumberland Electric Railway Co., Cumberland, granted franchise by Council to extend line on Green St. G. L. Wellington, Cumberland, Pres. Noted Aug. 24.

Virginia—Blue Ridge Light and Power Co., Staunton, will improve and extend street railway. W. E. Moore & Co., Pittsburgh, Engr. Constr.

West Virginia—Baltimore & Ohio Railroad Co. plans branch from near Grafton to lands recently acquired by Big Run Coal Co. R. N. Begien, Baltimore, Ch. Engr.

West Virginia—West Virginia Traction and Electric Co. plans to extend line from Wheeling to Morgantown. R. D. Jamison, Wheeling, Gen. Mgr.

South Carolina—Carolina-Southern R.R. incorporated with $30,000 capital stock to build line from Orangeburg south to Estill or some point in Hampton County, about 60 mi. E. N. Mittle, Bowman, and J. L. Dukes, Orangeburg, interested.

Florida—G. M. Langston, Pres South Florida Realty and Bonding Co., Inc., Sebring, interested in motor-operated railway in vicinity of Sebring.

Florida—Bd. Trade, Dade City, interested in railway from Dade City to San Antonio, about 7 mi., to connect with Atlantic Coast Line. Address C. A. Lock, Dade City.

Alabama—Mobile, Volanta & Pensacola R.R., formerly Mobile & Baldwin County R.R., plans extension east from Volanta, Ala., to Pensacola, Fla., about 40 mi. M. H. Miller, Volanta, Gen. Mgr.

Alabama—Montgomery Light and Traction Co., Montgomery, plans line from Montgomery to Wetumpka, provided bridge is built over Tallapoosa River near Hughes Ferry and trolley line permitted to run across it. About $100,000. H. T. Crenshaw, Montgomery, Secy.

Tennessee—Wayne-Hardin R.R. making surveys for line from Collinwood to Savannah, Tenn., about 45 mi. E. H. Steinman, Collinwood, interested. Noted Sept. 7.

Kentucky—Interstate Coal and Lumber Co., Elkins, W. Va., plans narrow-gage railway on Middle Fork and Greasy Creeks in Leslie County, about 12 mi.

Ohio—Cincinnati, Hamilton & Dayton Ry. plans to double-track line north of Troy. F. L. Stuart, Baltimore, Md., Consult. Engr.

Ohio—Cleveland, Cincinnati, Chicago & St. Louis Ry. plans to double-track and otherwise improve line from DeGraff to Houston. C. A. Paquette, Cincinnati, Ch. Engr.

Kansas—Santa Fe Ry. plans line from Caney, Kan., through Pawhuska to Pawnee, Okla. C. F. W. Felt, Chicago, Ch. Engr.

Nebraska—Omaha & Council Bluffs St. Ry. plans line from 24th and O St. to 19th and W St., Omaha. W. A. Smith, Omaha, Gen. Mgr.

Arkansas—Memphis, Dallas & Gulf Railroad Co. plans line from Bingen, near Nashville, to Corinth, about 5 mi. W. P. Hart, Nashville, Ch. Engr.

Texas—Houston & Texas Central R.R. made plans for belt-line railway around Ft. Worth. I. A. Cottingham, Houston, Ch. Engr.

Washington—Methow Valley & Easterly Railway Co. will be incorporated to build line from Pateros up Methow Valley, about 53 mi. J. A. Miller, Bellingham, Secy.

California—Bd. Superv., San Francisco, plans to extend line of Municipal Railway of San Francisco along Army St. from Church to 3rd St. to Hunter's Point. T. A. Cashin, San Francisco, Supt.

Quebec—Canadian Pacific Railway Co. plans to electrify line from Kingston to Renfrew. W. E. Woolhouse, Montreal, Ch. Engr.

Ontario—Sudbury-Copper Cliff Electric Railway Co. will not build proposed extensions at present time, owing to war conditions. J. H. Mackey, Sudbury, Pres. Noted Sept. 14.

Bids In and Contracts Awarded

West Virginia—Hartland Colliery Co., Clarksburg, let contract 5½-mi. standard-gage railway in Clay County to KEITHLEY & HORD, Huntington. J. B. Hart, Clarksburg, Pres. Noted Aug. 31.

Idaho—Oregon-Washington Railroad and Navigation Co. let contract branch from Beaver up Carbon Creek to TWOHY BROS., Portland, about $200,000.

Texas—Houston, Gonzales & San Antonio Interurban Ry. let contract line between Houston and San Antonio to T. D. McAUGHAN. About $600,000. E. Kennedy, Houston, interested. Noted Feb. 10.

LIGHT, HEAT AND POWER

Proposed Work

Mass., Charlton—Newburyport Gas and Electric Co. plans transmission line across Merrimac River to Rings Island to connect with system of Amesbury Electric Light Co.

N. Y., Niagara Falls—International Ry. Co. of Buffalo plans substation at 24th St. and Allen Ave. J. C. Sheldon, Buffalo, Pur. Agt.

N. Y., Niagara Falls—Titanium Alloy Manufacturing Co. soon receives bids for 1- and 2-story, 46x53-ft. boiler house.

N. J., South River—City plans installing gas unit. About $50,000.

Penn., Aldan—Delaware County Electric Co., Lansdowne, to install electric-lighting system in Aldan.

Penn., Bristol—W. J. Steel plans power plant.

Penn., Eddystone—Philadelphia Electric Co. plans substation in Eddystone.

Penn., Philadelphia—Sisters of Mercy Hospital, Cedar Ave., making plans for power house. E. F. Durang & Sons, Arch.

Penn., Waymart—Scranton Electric Co., Scranton, plans to extend transmission lines to Waymart.

Va., Williamsburg—E. H. Clowes and associates, Richmond, granted franchise by Council to construct electric-light plant.

N. C., Madison—City voted $8,000 bonds for electric-light and power system. Noted Mar. 16.

S. C., Camden—City voted $7,000 bonds for electric-light plant. C. H. Yates, Mayor. Noted Aug. 24.

Ga., Damascus—City voted $15,000 bonds for electric-light plant and water system. Noted Sept. 28.

Tenn., Bearden—Colonial Lumber Co. plans electric-light plant. H. D. Wyrick, Mgr.

Ohio, Martins Ferry—City plans to improve electric-light plant.

Ohio, Massillon—City plans electric-light system.

Ohio, Newcomerstown—Town plans electric-light plant.

Ind., Sullivan—Sullivan County Electric Co. making plans for extending its service in Sullivan County. Noted Feb. 3.

Mich., Manistee—Consumers Power Co., Jackson, plans dam on Manistee River to develop about 22,000 hp.

Mich., Pontiac—Detroit Edison Co. applied to City Comn. for permission to build substation, about $75,000.

Ill., DeKalb—DeKalb-Sycamore Electric Co. plans to enlarge power plant.

Ill., Gibson City—See item under "Water-Works."

Wis., Hortonville—Company will be organized to take over holdings of Hortonville Light, Heat and Power Co. and install electric-light plant in Hortonville.

Iowa, Ft. Madison—City making plans for 1-story, 34x44-ft. power house. H. F. Liebbe, State Capitol Bldg., Des Moines, Arch.

Iowa, Iowa Falls—Iowa Falls Heat, Light and Power Co., Iowa Falls, granted franchise to extend transmission lines to Alden.

Kan., Augusta—City voted $10,000 bonds for improving and extending electric-light plant and system. Noted Aug. 17.

Kan., Moran—City voted $12,000 bonds for electric-light plant. W. B. Rollins & Co., 439 Railway Exchange Bldg., Kansas City, Mo., Engr.

Kan., Wichita—Kansas Gas and Electric Co., Wichita, plans to spend about $300,000 for improving its plant and extending its system.

Neb., Beatrice—City making plans for 1-story, 30x32-ft. power house. About $5,500.

Neb., Norfolk—Neb., Tilden—Nebraska Gas and Electric Co. plans to extend transmission line from Tilden to Oakdale, about 10 mi.

N. D., Granville—Bacon & Burr plan to install electric-light plant in Granville.

N. D., Halliday—J. F. Wenrick plans to install electric-light plant.

Tex., Denton—See item under "Water-Works."

Tex., Sweetwater—West Texas Electric Co. plans to enlarge its plant in Sweetwater.

Tex., Wichita Falls—Wichita Falls Electric Co. increased its capital stock from $700,000 to $775,000 and will improve its plant.

Okla., Buffalo—City election Oct. 11 to vote on $15,000 electric-light plant bonds.

Okla., Canton—O. A. Hunt, Watonga, interested in electric-light plant in Canton.

Okla., Woodward—Citizens voted $15,000 bonds for electric-light plant and water system.

Idaho, De Lamar—Electric Investment Co., Boise, plans to extend its transmission line from De Lamar to Jordan Valley.

Calif., Colusa—City plans electric-light plant.

Ont., Petrolia—Union Natural Gas Co. plans 2-mi. high pressure gas line. F. James, Chatham, Mgr.

Bids In and Contracts Awarded

N. Y., Buffalo—Delaware, Lackawanna & Western R.R., 24 Michigan St., let contract power house to F. D. HYDE, 90 West St., New York, about $18,000. Noted Sept. 21.

N. J., Elizabeth—S. L. Moore & Sons Corporation let contract power house to LEVERING & GARRIGUES, 552 West 23rd St., New York.

Md., Baltimore—Consolidated Gas, Electric Light and Power Co., Liberty and Lexington St., let contract for 4-story plant to BENNETT BUILDING CO., 123 South Howard St. Estimated cost, $35,000. Noted Sept. 7.

Ind., Anderson—Remy Electric Co. let contract addition to plant to ESHELMAN & SON, Anderson, $51,000.

Ind., St. Mary's City—St. Mary's of the Woods Girl's School let contract 1-story boiler house and engine room to M. J. HOFFMAN CONSTRUCTION CO., Evansville, Ind.

Minn., Hoffman—City let contract electric transmission line to STERLING ELECTRIC CO., 33 South 5th St., Minneapolis. About $10,000. Noted Sept. 24.

Minn., Holt—City let contract electric-light and power plant to H. J. OLSEN, Warren.

S. D., Mitchell—Mitchell Power Co., 110 3rd Ave., let contract 1-story power plant to A. J. KINGS & SON.

Ore., Riddle—See item under "Water-Works."

BRIDGES

Proposed Work

Mass., Salem—City making plans for rein.-con. bridge over canal on Washington St. J. R. Worcester & Co., 79 Milk St., Boston, Engr.

N. Y., Andover—State Highway Dept., 55 Lancaster St., Albany, making plans for bridge in Allegheny County, about $5,000. H. Craig, Canaseraga, Supt. Highways Allegheny County.

N. Y., Buffalo—(Official)—Comr. Pub. Wks. receiving bids Oct. 17 for reconstruction, renewal and protection of viaducts on several streets of city. G. H. Norton, City Engr. (See adv.)

N. Y., Dansville—Steuben County soon receives bids for steel bridge, about $10,000. C. E. Bower, Sansville, Supt. Highways.

N. J., Cranbury—Bd. Chosen Freeholders, Middlesex County, New Brunswick, receiving bids Oct. 9 for King Rod truss bridge over Cranbury Brook. A. Bissett, Clk.

N. J., Jersey City—Comrs. plan to repair 13th St. Viaduct, about $32,000. C. A. Van Keuren, City Engr.

N. J., Jersey City—Bd. Freeholders Hudson County receiving bids Oct. 11 for steel bridge with concrete retaining wall at Woodcliff, North Bergen. W. O'Mara, Court House, Jersey City, Clk.

Penn., Chester—Delaware County plans rein.-con. bridge over Chester Creek on Kerlin St. between Chester and Upland. J. S. Rogers, Media, Clk.

Penn., Erie—City receives bids about Nov. 1 for rein.-con. culvert on Garrison Run, about $900,000. Gannett, Sellye & Fleming, Telegraph Bldg., Harrisburg, Engr. Noted June 15.

Penn., Harrisburg—Dauphin County plans bridge across Paxton Creek.

Penn., Philadelphia—See item under "Streets and Roads."

Penn., Pottstown—Pennsylvania R.R. to build 6-span rein.-con. slab bridge over Manatawny Creek. A. C. Shand, Broad St. Sta., Philadelphia, Ch. Engr.

Penn., Uniontown—Fayette County plans passenger bridge over Monongahela River between Fayette City and Allenport. About $200,000. Address County Clk., Uniontown.

Penn., Womelsdorf—Womelsdorf, Richmond & Meyerstown St. Railway Co. plans bridge over Lebanon Branch of Philadelphia & Reading Ry. R. J. Lawrence, 525 East Gates St., Philadelphia, Ch. Engr.

W. Va., Man—Chesapeake & Ohio Railway Co. plans bridge from Man to Gilbert. F. I. Cabell, Ch. Engr.

Ga., Calhoun—Bd. Comrs. Rds. and Revenues of Gordon County receiving bids Oct. 11 for bridge over Cossawattee River, near Reel's Ferry, about $5,000. Address Clk., Calhoun. Noted July 27.

Ga., Folkston—Charlton County Comrs. receiving bids Oct. 20 for concrete bridge across St. Marys River. Noted May 18

Bridges (Continued)

Fla., Cortez—J. R. Jones, Tampa, is head of company which plans bridge between Cortez and Anna Maria Key, about ⅞ mi. long.

Fla., Jacksonville—Duval County soon votes on $750,000 bonds for bridge across St. Johns River. Harrington, Howard & Ash, Kansas City, Mo., Engr. Noted Aug. 17.

Fla., Tallahassee—Leon County Comrs. receiving bids Oct. 10 for 330 lin.ft. frame bent and 175 ft. pile bent bridges in connection with 55 mi. road work. J. C. Moore, Tallahassee, Chn.

Fla., Tarpon Springs—Pinellas County rejected bids for bridge over Anclote River. New bids. Address County Clk., Clearwater.

Ala., Montgomery—Montgomery County election Oct. 1 to vote on $50,000 bonds for bridge over Tallapoosa River between Montgomery and Elmore Counties. Address County Clk., Montgomery. Noted Sept. 14.

Ala., Montgomery—Louisville & Nashville R.R. plans concrete bridge at Bell St. W. H. Courtney, Louisville, Ch. Engr.

Miss., Batesville—Bd. Superv. Panola County receiving bids Oct. 9 for steel approaches, stringers and floor on main span of iron bridge over Tallahatchie River, at Old Panola. M. W. Roberson, Batesville, Clk.

Miss., De Kalb—Superv. Kemper County Highway Comn. of Dist. No. 1 receiving bids Oct. 11 for 100 cement and concrete bridges. Snowden & Hauser, Jackson, Engr.

Ohio, Covington—Miami County plans bridges over Stillwater River at Covington, about $18,000. O. C. N. Peters, Troy, Audr. L. F. Knopp, Court House, Troy, Engr.

Ohio, Galion—Crawford County plans bridge on Gill St. O. H. Biebenhauser, Bucyrus, Audr. H. Keller, Court House, Bucyrus, Engr.

Ohio, Troy—Miami County plans $18,000 bond issue for bridge over Stillwater River. Address County Clk., Troy. Noted Aug. 24.

Ohio, Youngstown—City making plans for steel bridge over Cedar St. Viaduct, about 700 ft. long. F. Lillie, City Engr.

Ind., Elkhart—Elkhart County receiving bids Oct. 3 for concrete bridge on Crawford St., about $15,000. Address County Clk., Elkhart.

Ind., South Bend—(Official)—Comrs. St. Joseph and Elkhart Counties, Court House, South Bend, receiving bids Oct. 16 for flat top "I" beam bridge over Bango Creek on county line. A. F. Wolf, South Bend, Audr. St. Joseph County.

Ind., Terre Haute—Vigo County receives bids about Oct. 15 90-ft. rein.-con. bridge in Riley Township. T. Ferguson, Terre Haute, Audr. H. C. Anderson, Court House, Engr.

Mich., Benton Harbor—City receiving bids Oct. 22 for steel viaduct.

Ill., Pekin—City plans bridge across Illinois River. About $100,000.

Iowa, Des Moines—City soon receives bids for bridge over Des Moines River on Grand Ave. K. Kastberg, City Engr. Noted May 11.

Minn., Mound Prairie—City receiving bids Oct. 7 for 80-ft. steel bridge over Root River.

Minn., St. Paul—City plans viaduct on Hamline Ave., about $60,000. O. Claussen, City Engr.

Kan., Emporia—Lyon County plans 60-ft. rein.-con. bridge over Elm Creek, Waterloo Township. H. A. Osborn, Emporia, Clk.

Kan., Topeka—Shawnee County receiving bids Oct. 30 for 3 rein.-con. Luten arch bridges over Indian Vassar and Deer Creeks. About $5,000 each. W. J. Arnold, Topeka, Engr.

S. D., Mitchell—Davidson County plans expenditure of $20,000 for bridges. J. M. Crampton, Mitchell, Audr.

Mont., Miles City—Custer County plans 60-ft. steel bridge over Fallon Creek. Address County Clk., Miles City.

Tex., Ft. Worth—City receiving bids Oct. 10 for Allen Ave. Viaduct, about 1,100 ft. long and 32 ft. wide, rein.-con. F. J. Von Zuben, City Engr. Noted Sept. 7.

Okla., Oklahoma—Oklahoma County making plans for 15 bridges, about $30,000. H. Adams, Oklahoma, County Engr.

Wash., Walla Walla—Walla Walla County election Nov. 7 to vote on $25,000 bonds for bridge over Snake River between Walla Walla and Franklin Counties. Franklin County will also vote $25,000 bonds for same. C. E. Fowler, Seattle Bldg., Seattle, Engr.

Calif., Eureka—Humboldt County receiving bids Oct. 10 for bridge over Ehman Creek. F. M. Kay, Eureka, Clk. Bd. Superv.

Calif., Sacramento—Sacramento County receiving bids Oct. 9 for 2 rein.-con. bridges, 1 on Marysville Rd. and 1 on Marconi Ave. E. F. Pfund, Sacramento, County Clk.

Calif., San Anselmo—Town Trustees soon receive bids for bridge at Lansdale, about $13,000.

Calif., Ventura—Ventura County receiving bids Oct. 14 for 120-ft. bridge over San Antonio Creek on Ojai Ave. J. B. McCloskey, Ventura, Clk.

Ont., Peterboro—Ry. Com. of Council approved plans for foot bridge across Otonabee River, about $5,000. Noted June 22.

Bids In and Contracts Awarded

N. J., Atlantic City—Atlantic County let contract bridge to G. HANDELMAN, Cologne, about $10,000.

N. J., Newark—Bd. St. and Water Comrs. let contract 3 pile bridges over tracks of Delaware, Lackawanna & Western R.R. on Clifton Ave. and 5th and North 6th St. to HAY FOUNDRY AND IRON WORKS, Plum Point Lane, about $5,352.

N. J., Newark—Low bidders bridge over tracks of Central R.R. of New Jersey on Port St. were: Averill-Matthews Co., Essex Bldg., $60,328; Holbrook, Cabot & Rollins Corporation, New York, $66,211; Linde & Griffith Co., Newark, $67,973. M. R. Sherrard, City Engr. Noted Sept. 14.

Penn., Carbondale—Delaware & Hudson R.R. let contract viaduct on Dundaff St. to PHOENIX BRIDGE CO., Phoenixville, about $50,000.

Penn., Gratztown—Westmoreland County let contract bridge over Big Sewickley Creek to B. GALLIARDI, Connellsville, about $9,058.

Penn., Indiana—(Official)—Indiana County let contract bridge over Lick Creek to WHITTAKER & DIEHL, Harrisburg, $10,419. Noted Sept. 21.

Penn., Norristown—Montgomery County let contract bridge over Swamp Creek to W. DERR, about $4,000.

Penn., Simpson—Delaware & Hudson Co., New York, Ontario & Western Railroad Co., Erie R.R. and Scranton Railroad Co. let contract substructure for 850-ft. viaduct at Simpson to E. WHALON, Towando. About $70,000. Noted Apr. 27.

Md., Baltimore—State Roads Comn. let contract concrete bridge over Western Run, York Rd. to B. H. MAYS, Glencoe. About $9,264.

Va., Narrows—Giles County Comrs. let contract bridge across New River to CHAMPION BRIDGE CO., Wilmington. About $30,000.

W. Va., Fairmont—City let contract Parker Run Bridge to COLE BROS. CONSTRUCTION CO., Morgantown, about $12,450.

W. Va., Franklin—(Official)—Pendleton County let contract bridge across South Branch to FARRIS BRIDGE CO., Charleston, about $5,900. Noted Sept. 14.

Fla., Cocoa—Brevard County, Titusville, let contracts bridge over Indian River between Cocoa and Merritt Island to CONVERSE BRIDGE CO., Chattanooga, engine and 2 steel draw openings; T. C. DAWKINS, Jacksonville, timber piles and concrete work. Noted Aug. 31.

Fla., Ft. Lauderdale—Dade County let contract steel highway draw bridge over New River Sound connecting Ft. Lauderdale and Ocean Beach to CHAMPION BRIDGE CO., Wilmington, Ohio, $6,450; timber trestle at same location, NEWLAND & OLSSEN, Ft. Lauderdale, $4,828.

Ohio, Cincinnati—Hamilton County let contracts bridges as follows: ARPP-SIMPSON CO., Middletown, bridge over Four Mile Creek, Milford Township, $8,952; W. M. DAVIS, bridge over Four Mile Creek at Manrid Farm, $8,348. Noted Mar. 16.

Ohio, Cincinnati—Hamilton County let contract bridge over Seven Mile Creek near Somerville to ARPP-SIMPSON CO., Middletown, $14,886. Noted Mar. 16.

Ohio, Dayton—Montgomery County let contract substructure Upper Union Bridge No. 76, Randolph Township, to E. E. FAUVER, 171 South Potomac St. Noted July 13.

Ohio, Medina—Medina County let contract bridge in Medina Township, substructure to EINHART & LEAVETTE, Medina, superstructure to C. W. DANIELS & SONS, Lodi. Noted Aug. 31.

Mich., Detroit—City let contract bridge over Charlerol and Fox Creek to T. E. CUTTIE, 29 McGraw Bldg., about $6,950.

Mich., Houghton—County let contract rein.-con. bridge over Houghton Douglas Creek on Cemetery Rd. to LeCLERE & DION.

Ill., Chicago—Cook County let contract Brookfield Bridge, Riverside Township, to REPPERT CONSTRUCTION CO., Melrose Park, about $12,556.

Ill., Pittsfield—(Official)—Pike County let contract bridge Pleasant Vale Township to G. GRIFFITHS, JR., 428 Odd Fellows Bldg., about $9,343. Noted Sept. 14.

Iowa, Council Bluffs—County rejected bids for highway bridge at Macedonia.

Iowa, Council Bluffs—Bids received for North First St. Bridge from C. C. Norgaard & Son, $9,709, labor and material; P. Peterson, $8,850, bridge proper, extras for excavation and fill; Wickham & Co., $5,885 bridge with extras for excavation, fill, concrete and reinforcing material; J. Saguin, $7,800 labor and material except filling necessary.

Minn., Faribault—City let contract bridge at Sheffield King Mill to R. R. THOMAS, Faribault, about $4,488. Noted Sept. 7.

Kan., Kansas City—Harrington, Howard & Ash, Engr., Orear Leslie Bldg., submitted report estimating cost of viaduct on 7th St., about 1,900 ft. long at $25,000.

Neb., Fremont—Dodge County let contract bridge work for 1 year to STANDARD BRIDGE CO., Omaha. Noted Sept. 14.

S. D., Yankton—Yankton County let contract bridge over Rhine Creek on Capitol St. to ELLERMAN-McLAIN CONSTRUCTION CO., about $6,950.

N. D., Westhope—City let contract bridge between Sergius and Eidsvold Townships to HENNEPIN BRIDGE CO., 922 Laurel Ave., Minneapolis, about $19,350.

Mont., Missoula—City let contract bridge over Hell Gate River to O. E. PEPPARD, Missoula, about $5,040.

Mo., Kansas City—Kansas City Southern R.R. let contract viaduct on College Ave. to R. W. WADDELL, 3212 Central St. Noted July 29.

Mo., Kansas City—(Official)—Low bidders arch bridge over Brush Creek on Troost Ave. were Fox-Redpath Construction Co., $16,676; M. Carroll Co., $18,523; Kansas City Construction Co., $21,059. C. Hill, City Engr. Noted Sept. 14.

Mo., Kansas City—(Official)—Low bidders bridge over McGee St. Trafficway on 26th St. were Fox-Redpath Construction Co., $13,132; Kansas City Construction Co., $14,398; M. Carroll Co., $14,446. C. Hill, City Engr. Noted Sept. 14.

Mo., Kansas City—(Official)—Low bidders bridge over Wyandotte St. on 31st St. were M. Carroll Co., $11,363; Kansas City Construction Co., $11,906; G. W. Goodlander, $12,503. Noted Sept. 14.

Mo., Kansas City—(Official)—Low bidders Culvert on 51st St. near Indiana Ave. were M. Walsh, $5,526; Kansas City Construction Co., $5,818; Midland Bridge Co., $6,141. C. Hill, City Engr. Noted Sept. 14.

Mo., Louisiana—Council let contract bridge over Noix Creek to UNION BRIDGE AND CONSTRUCTION CO., 903 Sharp Bldg., Kansas City, about $8,890. Noted Sept. 28.

Ark., Corning—Clay County Comrs. let contract bridge over Black River to VINCENNES BRIDGE CO., Vincennes, Ind., about $19,000. Noted Aug. 31.

Tex., Cleburne—Council awarded contract for bridge on West Willingham St. to MISSOURI VALLEY BRIDGE AND IRON CO.

Tex., Riverside—Trinity County let contract bridge over Trinity River at Riverside to MIDLAND BRIDGE CO., Kansas City, Mo., about $30,000. Noted June 29.

Okla., Cherokee—Alfalfa County let contract 6 bridges to KANSAS CITY BRIDGE CO., 510 Orear-Leslie Bldg., Kansas City, Mo.

Okla., Eufaula—State Highway Dept., Oklahoma, let contract concrete bridges in McIntosh County to OKLAHOMA BRIDGE CO., Patterson Bldg., Oklahoma, about $5,345. Noted Sept. 14.

Okla., Lehigh—Cole County rejected bids for 5 bridges.

Okla., Medford—Grant County let contract 10 bridges to CANTON BRIDGE CO., New York Life Bldg., Kansas City, Mo., $15,450.

Ore., Baker—Baker County let contract 10 bridges to COAST BRIDGE CO., Portland, about $12,000. Noted Aug. 3.

Calif., Oakland—(Official)—County let contract bridge in Eden Rd. Township to W. E. FERNANDEZ, Haywood. Noted Sept. 7.

Calif., San Diego—City to rebuild 39th St. bridge by day labor. About $5,000. Noted June 22.

Calif., Ventura—Ventura County let contract west extension of Montalvo Bridge to W. M. LEDBETTER & CO., Pacific Electric Bldg., Los Angeles, $5,479.

Que., Montreal—City let contract La Salle Bridge over Lachine Canal to T. O'SULLIVAN, about $209,221. Noted June 15.

Ont., Wainfleet—Town rejected bids for 7 concrete bridges. Work to be done by day labor.

B. C., Mission City—Council let contract new bridge at Law Slough to J. HARPER and E. CONLEY.

WATER-WORKS

Proposed Work

Mass., Braintree—Town receiving bids Oct. 9 for c.-i. pipe and hydrants in Union St. W. E. Maybury, Supt.

N. Y., Ft. Ann—City plans election to vote on proposition to install water system.

N. Y., Herkimer—Taxpayers plan election about Oct 13 to vote on appropriation of $350,000 for water system. R. F. Horton, 57 North Pine Ave., Albany, Engr.

N. J., Lincoln Park—Lincoln Park Water Co. plans water-works. F. N. Johnson, interested.

Penn., McDonald—Borough plans water system, about $10,000. Douglass & McKnight, Union Bank Bldg., Pittsburgh, Engr.

Penn., Montour—Pittsburgh Coal Co., Oliver Bldg., Pittsburgh, plans filtration plant at Montour. E. J. Taylor, Oliver Bldg., Pittsburgh, Engr.

Penn., Philadelphia—Dept. Pub. Wks. plans to extend water mains in Wyoming Ave. Dist., install new pumping machinery and new repair and maintenance plants. About $500,000. G. T. Datesman, Dir. A. J. Fuller, Supt.

Penn., Phillipsburg—Citizens Water Co. making preliminary plans for reservoir, about $40,000. H. B. Scott, Mgr. M. Knowles, Oliver Bldg., Pittsburgh, Engr. Noted Sept. 14.

Penn., Waynesboro—Waynesboro Water Co. making plans for reservoir and pipe line. J. P. Funk, 6 North Church St., Supt. M. Knowles, Oliver Bldg., Pittsburgh, Engr. Noted Sept. 14.

Water-Works (Continued)

Va., Norfolk—City plans water mains in Plume, Church, Yarmouth, 28th and other streets. About $21,792. C. H. Bliven, Supt.

Va., Williamsburg—City making plans for extending water and sewer systems in Delta Park, about $18,000. Bolton, Clark & Pratt, 8th and Main St., Engr.

Ga., Damascus—See item under "Light, Heat and Power."

Miss., Marks—Citizens voted $25,000 bonds for water-works and sewers. M. P. Lowery, Mayor.

Miss., Meridian—City Council voted $4,000 water bonds. M. L. Worrell, Supt.

Miss., Merrigold—See item under "Sewers."

La., Crowley—City making plans for well and reservoir. W. C. Rose, Supt.

Tenn., Rogersville—City receiving bids Oct. 10 for water and sewer systems. J. N. Ambler, Winston-Salem, N. C., Engr. Noted Sept. 21.

Ky., Georgetown—City to vote Nov. 7 for $100,000 water and electric-light bonds. S. L. Allen, Supt.

Ohio, Akron—City plans water meters. About $40,000. H. H. Frost, Supt.

Ohio, Akron—City plans $300,000 bond issue for water system. H. H. Frost, Supt. Noted Aug. 17.

Ohio, Alliance—City plans to spend about $20,000 for water meters. L. A. Tonkle, Supt.

Ohio, Alliance—City plans enlarging pumping station. L. A. Tonkle, Supt.

Ohio, Cincinnati—City receiving bids Nov. 2 for $100,000 bonds for high-pressure fire mains. A. D. Blackmore, Supt. Noted May 11.

Ohio, Piqua—Council adopted resolution authorizing $380,000 bond issue for water system. W. Zimmerman, Supt. Noted May 25.

Ohio, Ravenna—City passed ordinance for water system. John S. Mallette, Supt.

Ohio, St. Bernard—City plans water softening plant. E. C. Heller, Supt.

Ohio, Troy—(Official)—Council receives bids about Dec. 1 for 1,000 water meters. L. A. Pool, Supt. Noted Sept. 21.

Ohio, Westerville—City plans to spend about $20,000 for improving water system. Richards Engineering Co., 37½ Long St., Columbus, and Herring & Gregory, New York, Consult. Engrs.

Mich., Flint—City soon to receive bids for purchase of $400,000 water bonds. W. L. Fisher, Supt.

Mich., Petoskey—City making plans for improving water-works. J. W. Lovelace, Supt. Fargo Engineering Co., 226-28 West Main St., Jackson, Engr.

Ill., Galesburg—Council passed ordinance for water main in portion 3d St. T. H. Snowball, Supt.

Ill., Gibson City—City plans election to vote on $31,000 bonds for water system and electric-light plant. Noted June 22.

Wis., Osceola—Village soon receives bids for water system, about $25,000. F. D. Staples, Clk. Noted Aug. 24.

Wis., Chilton—City receives bids Oct. 11 for artesian well, 100,000 gal. concrete reservoir, mains, hydrants, pumping station, etc. About $45,000 bonds voted. J. Pfeffer, City Clk.

Wis., Oshkosh—Bd. Pub. Wks. receiving bids Oct. 11 for water tower and filter plant.

Wis., Portage—City soon receives bids for filter plant. About $30,000. L. P. Wolff, 1000 Germania Bldg., Engr. Noted Sept. 7.

Iowa, Coin—Citizens sold $12,000 water-works bonds. Noted Aug. 3.

Iowa, Hampton—City plans to lay about 12 blocks new water mains. L. Talham, Supt.

Iowa, Osage—Citizens voted $4,000 water bonds.

Iowa, Riceville—City sold $4,000 water-works bonds. H. A. Yager, Clk. Noted Aug. 31.

Minn., Chaska—City sold $15,000 water-works bonds. Noted June 8.

Minn., Pine River—City plans to lay about 5 blocks water main and install pumping station.

Minn., Plainview—Village making plans for water-works. J. F. Druar, 312 Commercial Bldg., St. Paul, Consult. Engr.

Minn., West St. Paul—(St. Paul post office)—City receiving bids Oct. 10 for water system. F. Youngerbauer, City Clk. J. F. Druar, 312 Commercial Bldg., St. Paul, Engr. Noted Sept. 21.

Kan., Pawnee Rock—City plans water system.

Neb., Loup City—City plans to install water system.

S. D., Alcester—City plans to extend water mains about 14 blocks. A. A. Treick, Audr.

S. D., Hitchcock—City soon lets contract water-works. Noted June 15.

S. D., Milbank—City election Oct. 30 to vote on $12,000 filter plant bonds. Noted Feb. 24.

Mont., Havre—City plans 2 reservoirs.

Mo., Paris—(Official)—City receiving bids Oct. 6 for filter plant. About $12,500. G. B. Blakey, Supt. Noted Sept. 7.

Ark., Batesville—City plans filter plant at water-works. W. H. Walkup, Supt.

Ark., Star City—City plans water system.

Tex., Denton—City plans to improve water system and electric-light plant. W. J. Grady, Supt.

Tex., Ft. Worth—City Comn. to extend water mains along Arlington Heights Blvd. L. H. Blanke, Supt.

Okla., Buffalo—City election Oct. 11 to vote on $15,000 water-works bonds.

Okla., Canby—Citizens voted $18,000 water-works bonds.

Okla., Checotah—City plans bond issue for improving water-works. J. E. Harding, Supt.

Okla., Duncan—City plans election to vote on $6,000 water-works bonds. E. W. Mitchell, City Clk. Noted May 25.

Okla., Okmulgee—Citizens voted $25,000 water-works bonds. M. N. Coles, City Engr. Noted Sept. 28.

Okla., Pawhuska—City election Oct. 12 to vote on $18,000 water-works bonds. J. M. Buckbey, City Engr.

Idaho, Mackay—Idaho Improvement Co. plans to spend about $13,500 for improving and extending water system. H. H. Wellus, Pres.

Utah, Ephrian—(Official)—Citizens voted $15,000 water-works bonds. F. Y. Jensen, Supt. Noted Sept. 21.

Utah, Garland—City voted $38,000 water-works bonds. Noted Sept. 28.

Utah, Newton—City voted $12,500 bonds for water system.

Wash., Seattle—City soon lets contract water mains in Rainier Ave. L. B. Young, Supt.

Wash., Seattle—City plans water mains and sewers in Terry and Borden Ave. About $14,417. C. B. Bagley, Secy. Bd. Pub. Wks.

Wash., Seattle—City votes in November on $3,000,000 bonds for 3d pipe line and acquisition of lands surrounding Swan Lake to create impounding reservoir for water system.

Ore., John Day—City plans water system, about $10,000.

Ore., Riddle—Citizens voted $21,000 bonds for water and electric-light systems.

Calif., Bairdstown—Citizens voted $200,000 bonds for distributing system. W. Mulholland, Knickerbocker Bldg., Ch. Engr. Bd. Pub. Ser. Comn. Noted July 27.

Calif., San Diego—City plans election to vote on bonds for pipe line from Otay dam site to Bonita "Y." H. R. Fay, Supt. Noted Aug. 3.

Ont., Guelph—F. McArthur, City Engr., recommended repairing water pipe line, about $75,000. A. H. Foster, Mgr.

Ont., Kingsville—Council plans to replace water main on Lakeview Ave. with larger one. G. Gearse, Clk.

Ont., Niagara Falls—City plans to extend water mains and replace wooden pipes. W. C. Jepson, City Engr.

Bids In and Contracts Awarded

Maine, Augusta—Kennebec Water Dist. let contract 20,000,000-gal. reservoir to J. KERR, Rumford. W. W. Albee, Supt.

Conn., Derby—Derby Water Co. let contract storage dam to SPERRY ENGINEERING CO., 82 Church St., New Haven.

N. Y., Elmira—Water Bd. let contract relining interior walls of high pressure reservoir on West Hill let to REID-WAPLES CO., Philadelphia, $5,600.

N. Y., Mt. Pleasant—City let contract water system to F. C. LEWIS, 411 Manhattan Ave., New York.

N. Y., New York—W. HEYMAN, 383 East 157th St., Bronx, at $38,320, awarded contract grouting rock above Eastview Tunnel of Catskill Aqueduct. Noted Sept. 28.

Ky., Louisville—R. E. Wathen & Co. let contract drilling 12-in. rock and gravel well to C. KRAUSS & SONS.

Ohio, Cincinnati—Bd. Control let contract pipe for high pressure water service let to U. S. CAST IRON PIPE AND FOUNDRY CO., Addyston, $32,650.

Ohio, West Park—City rejected bids received Sept. 19 for water mains. About $6,000. D. W. Nichols, Clk. Noted Aug. 24.

Kan., Neodesha—(Official)—City will improve and extend water system by day labor. C. W. Care, City Engr. C. M. Kimball, Supt. Noted Aug. 3.

N. D., Marmarth—City let contract water system to SECURITY BRIDGE CO., Billings, Mont., about $18,000.

Mont., Sheridan—City let contract water system to H. HAYDEN, about $20,883.

Calif., Los Angeles—City let contracts riveted steel water pipe for Municipal Improvement Dist. No. 2, San Fernando Valley, to LOS ANGELES MANUFACTURING CO, 2500 Leonard, $10,123 for 8,412 ft. 14-in. pipe, and to U. S. METAL PRODUCTS CO., Pittsburgh, $59,530 for 61,398 ft. 12-in., and $48,271 for 92,666 ft. 8-in. Noted Sept. 28.

Calif., Pasadena—(Official)—City to install 1 mi. 8- and 10-in. c.-i. water main in Glenarm St. by day labor. Noted Sept. 14.

SEWERS

Proposed Work

N. Y., New York—(Manhattan)—(Official)—M. M. Marks, Borough Pres., Municipal Bldg., receiving bids Oct. 9 for sewers in 172d and 43d St.

N. Y., New York—(Manhattan)—(Official)—M. M. Marks, Borough Pres., Municipal Bldg., receiving bids Oct. 9 for tunnel relief sewer in 46th St. from Hudson River to 7th Ave. Noted Sept. 14.

N. Y., Rome—Bd. Pub. Wks. plans to extend sewers in Expence and William St. J. P. Plunkett, City Engr.

N. J., Elizabeth—City plans sewers in Amity St. T. E. Collins, City Engr.

N. J., Hopewell—City plans sewer system and disposal plant.

N. J., Linden—City plans bond issue for sewer in St. George and Greater Elizabeth Sections.

N. J., Ridgewood—Bd. Comrs. receiving bids Oct. 10 for sanitary sewers in Lincoln and West End Ave., Grand View and McKinley Pl. F. W. Simonds, Engr.

Penn., New Cumberland—Borough Engineer making surveys for 30-in. pipe sewer in 4th St.

Penn., Waynesboro—City votes Nov. 7 on $28,000 bonds for sewers. Noted July 13.

Penn., Wilkes-Barre—City retained A. Potter, Engr., 50 Church St., New York, to make plans for sewage-disposal plant. B. K. Finch, City Engr.

Penn., Williamsport—See item under "Streets and Roads."

Va., Norfolk—Bd. Control receiving bids Oct. 12 for sewers. H. H. Taylor, Jr., City Engr. Noted Sept. 21.

Va., Williamsburg—See item under "Water-Works."

W. Va., Pennsboro—City voted bonds for sewers. J. B. Yates, City Clk.

N. C., Tarboro—City receiving bids Oct. 17 for 5 mi. 8- to 12-in. sewers. W. M. Platt, Durham, Engr.

S. C., Greenville—(Official)—City voted $25,000 bonds for sewers. W. F. B. Haynesworth, City Engr. Noted Sept. 14.

Ga., Cairo—City votes Oct. 31 on $28,000 bonds for sewer system.

Fla., West Palm Beach—City voted $14,000 bonds for sewers.

Ala., Birmingham—City soon receives bids for 9,000 ft. sanitary sewer in Village Creek branch of Jefferson County trunk sewer.

Miss., Marks—See item under "Water-Works."

Tenn., Rogersville—See item under "Water-Works."

Ky., Lexington—City plans north side storm sewer. About $25,000. J. W. Guyn, City Engr.

Ky., Louisville—City plans north side storm sewer. About $25,000. D. R. Lyman, City Engr.

Ohio, Akron—City plans $636,000 bond issue for storm and sanitary sewers. J. A. Gehrea, City Engr.

Ohio, Greenville—City soon receives bids for storm sewer Dist. No. 1, Tiffin St., about $60,000. R. Horn, Engr.

Ohio, Kirkersville—Bd. Education receiving bids Oct. 13 for sewers and disposal plant. S. R. Reelhorn, Clk. Bd. Education.

Ohio, Lima—City votes in November on $500,000 bonds for improving storm sewers. C. Bryson, City Engr.

Ohio, Marion—City to install sewer in Cheney Ave. H. H. Noyes, City Engr.

Ohio, Wilmington—City plans sewers and disposal plant. About $50,000.

Ohio, Youngstown—City making plans for 1½ mi. 24- to 39-in. pipe sewer in Pine Hollow Dist. F. M. Lillie, City Engr. Noted Mar. 16.

Ill., Decatur—P. T. Hicks, Consult. Engr., estimates cost of sewer from Broadway to mouth of 7th Ward sewer at $100,000.

Ill., Granite City—J. Walbridge, Granite City, soon receives bids for 8,000 to 15,000 ft. of 3- to 6-in. concrete sewer.

Ill., Rock Island—City plans to purchase sewage pump, 5,000,000 gal. capacity, for Fifth Ave. Pumping Station. W. Treichler, City Engr.

Wis., Superior—City soon receives bids for sewers at Billings Park. E. B. Bankes, City Engr.

Iowa, Dayton—City soon receives bids for sewer. K. C. Gaynor, 506 United Bank Bldg., Sioux City, Engr.

Iowa, Logan—City receiving bids Oct. 9 for sewers. About $20,000. Bruce & Standeven, Omaha, Engr.

Iowa, Winterset—City making plans for sanitary sewer and disposal plant, about $150,000. Stevens & Stiles, 222 Commerce Bldg., Kansas City, Mo., Engr.

Kan., Garden City—(Official)—City receiving bids Oct. 13 (extension of date) for sanitary sewer system. About $50,000. Ruckel Engineering Co., First National Bank Bldg., Hutchinson, Engr. Noted Sept. 14.

Neb., Kearney—(Official)—City defeated proposition to issue $50,000 sewer bonds. J. N. Hartzell, City Clk. Noted Sept. 21.

Sewers (Continued)

Neb., Stanton—City receiving bids Oct. 9 for sewers in Dist. No. 3. W. T. McFarland, City Clk.

Ark., Dardanelle—City plans sewer system. C. D. Singer, City Comr.

Tex., Coleman—City election Oct. 16 to vote on $25,000 sewer bonds, $4,000 to purchase present privately owned plant and $11,000 to extend same. H. E. Elrod, Southwestern Life Bldg., Dallas, Consult. Engr. Noted June 8.

Tex., Laredo—City plans to install sewer system. E. J. Foster, City Engr.

Tex., Palacios—City plans to install sewer system.

Tex., Quanah—(Official)—City retained H. E. Elrod, Dallas, to make plans for sewer system and disposal plant.

Tex., Seymour—(Official)—City retained H. E. Elrod, Dallas, to make plans for sewer system and disposal plant.

Okla., Davis—City defeated $30,000 bond issue for sewers. Noted June 15.

Wash., Seattle—See item under "Water-Works."

Calif., Oakland—City receiving bids Oct. 11 for sewer in Whittle Ave. P. F. Brown, City Engr.

Calif., San Diego—City plans sewer system. G. Cromwell, City Engr.

Ont., Belleville—City plans storm sewer from Charles to Pinnacle St. About $7,620. J. W. Evans, City Engr.

Ont., London—City plans sewers in Rattle and Salisbury St. and Euclid Ave. About $9,344. S. Baker, City Clk.

Bids In and Contracts Awarded

Conn., New Haven—City let contract Blake St. sewer to T. F. MAHER, New Haven, $9,499.

Conn., New Haven—(Westville)—City let contract section sewer system to DWYER & MANNIX, 335 Dixwell Ave., $20,085.

Conn., Waterbury—City let contract sewers in Ives and Wood St. to BARBARA & D'AURIO, 63 Bank St.

N. Y., Thiells—Contract sewers let to C. DYKINS, JR., Stony Point, $5,700. Noted July 13.

N. J., Bogota—City let contract sewer system to R. F. RELLEY, Oswego, $21,000. Noted Sept. 28.

N. J., Edgewater—City let contract Sewer Outlet No. 11 to JOHN J. McGARRY, $114,527. Noted Aug. 3.

N. J., Fairview—Borough let contract sewers to BERGEN CONTRACTING CO., Cliffside Park, 6th St., $7,090, Kamena Ave., $6,800; F. BAGAGLIA, 4th St., $6,392.

Md., Highlandtown — (Official) — Baltimore County to build 2 intercepting storm water drains in Highlandtown by day labor. W. G. Sucro, Towson, County Roads Engr. Noted Sept. 21.

Miss., Merigold—City let contract sanitary sewers and water mains to U. S. SANITARY SEPTIC TANK CO. About $15,000.

Ohio, Cleveland—See item under "Streets and Roads."

Ohio, Jewett—See item under "Streets and Roads."

Ohio, Zanesville—Pub. Ser. Dir. let contract sewer in Eppley Ave. to C. K. SMITH, Zanesville. Noted May 18.

Ind., Peru—City let contract extending Broadway sewer to C. J. BURKE, Peru.

Ind., South Bend—City let contract sewers in Home and Studebaker St. to REESE & CARTER. F. J. Anderson, City Engr.

Mich., Ann Arbor—City let contract sanitary sewers to C. L. SCHNEIDER, Ann Arbor, $21,000.

Ill., Evanston—City let contract intercepting sewer, Contract No. 1, to NASH-DOWDLE CO., 29 South La Salle St., Chicago. Noted July 27.

Ill., Harvey—City let contract sewers in various streets to C. M. PORTER, 111 West Washington St., Chicago, about $5,000.

Ill., Sandwich—City rejected bids for storm sewers, about $60,000. Work will probably be done by day labor. Noted Aug. 31.

Ill., Springfield—Bd. Local Imprvts. let contract sewers in Reservoir St. to J. O. PATERSON, 833 South Glenwood Ave.; 9th St. to F. BURKE, 2404 South 9th St.

Iowa, Fredericksburg—City let contract 2½ mi. main lateral sewers and disposal plant to MOORE SIEG CONSTRUCTION CO., Waterloo. About $25,000.

Minn., Mora—City let contract sewer system to SCHEUTH & JACKSON, Sioux City.

Minn., Winona—City let contract sewers in Olmstead St. to R. B. McKINNEY and G. HEFTMANN.

Neb., Red Cloud—City let contract sewer system to ELKHORN CONSTRUCTION CO., Fremont, $9,841. Noted Sept. 7.

Mont., Three Forks—(Official)—City let contract sanitary sewers to SECURITY BRIDGE CO., Minneapolis, Minn., $127,449. Noted Sept. 7.

Okla., Norman—(Official)—City will build sewers by day labor. About $7,000. Noted Sept. 14.

GARBAGE

Proposed Work

N. J., Newark—Bd. Pub. Wks. soon receives bids for 300-ton garbage disposal plant. M. Sherrerd, Ch. Engr. Noted Sept. 28.

S. C., Orangeburg—City plans incinerator plant. E. Hawes, Jr., City Engr.

Ga., Cordele—City plans crematory. About $4,000. G. S. Harris, City Clk.

Ky., Newport—City votes Nov. 7 on $40,000 bonds for garbage incinerator. J. B. Morlidge, City Engr. Noted Mar. 9.

Ohio, Ironton—A. J. Hannan, Mayor, recommended to City Council construction of garbage-disposal plant. L. G. Howell, City Engr.

Tex., Cisco—City plans garbage disposal plant.

Bids In and Contracts Awarded

Ill., Mattoon—City let contract garbage disposal plant to O. A. ELLIOTT CO., Springfield, $5,000. Noted Aug. 31.

Wis., Stevens Point—City let contract 10-ton garbage incinerator to MINNEAPOLIS BRIDGE CO., 606 Metropolitan Life Bldg., Minneapolis, $5,000.

STREETS AND ROADS

Proposed Work

Mass., Springfield—Finance Com. voted $5,000 for sidewalks. F. H. Clark, City Engr.

R. I., Providence—City plans to pave several streets. W. W. Southgate, City Engr.

Conn., Stratford—Bd. Finance recommended expenditure of $5,900 for street improvements. J. Lally, City Engr.

N. Y., Albany—City soon receives bids for improving 9th St. F. R. Lanagan, City Engr.

N. Y., Albany—(Official)—E. Duffey, State Highway Comr., 55 Lancaster St., receiving bids Oct. 26 for constructing and repairing highways in various counties. (See adv.)

N. Y., Amsterdam—Council passed resolution to pave portion East Main St., brick, and macadamize Church St. C. G. Messenger, City Engr.

N. Y., Briarcliff—(Pine Plains post office)—City soon receives bids for 1¼ mi. macadam or concrete paving, about $20,000. Wulff Engineering Co., Tarrytown, Engr.

N. Y., Lake Placid—Taxpayers voted to pave Main St., brick, about $48,000.

N. Y., New York—(Brooklyn)—L. H. Pounds, Borough Pres., Borough Hall, receiving bids Oct. 11 for improving various streets.

N. Y., New York—(Brooklyn)—L. H. Pounds, Borough Pres., Borough Hall, receiving bids Oct. 16 for improving portion Maspeth Ave.

N. Y., New York—(Manhattan)—Park Bd. Dept. Parks, Municipal Bldg., receiving bids Oct. 11 for paving and repaving with mastic asphalt where directed walks of Central and other parks.

N. Y., New York—(Richmond)—C. D. Van Name, Borough Pres., Borough Hall, St. George, New Brighton, receiving bids Oct. 9 for concrete sidewalks on portions New Dorp Lane, Locust, Elm, Seaview and Maple Ave.

N. Y., Rochester—Council plans to pave and curb Goodman St., asphalt and stone. F. T. Elwood, City Engr.

N. Y., Syracuse—City plans new streets, also to extend present streets in southwest portion of city, including vicinity of Onondaga Park. H. A. Allen, City Engr.

N. Y., Utica—Comr. Pub. Wks. directed to repair pavement in West Ave. J. Kemper, City Engr.

N. Y., Watertown—Bd. Pub. Wks. plans to improve Gotham St. E. W. Sayles, City Engr.

N. Y., Watertown—Council approved plans for paving Bronson St. E. W. Sayles, City Engr.

N. Y., Yonkers—City plans sidewalks on several streets. D. F. Fallon, City Engr.

N. J., Asbury Park—City plans to widen and repair Main St. and Ocean and Lake Ave. H. L. Baumgartner, City Engr.

N. J., Bayonne—City Comn. plans to improve West 39th St., asphalt. W. L. Clarkson, City Engr.

N. J., Boonton—Council adopted ordinance for widening Myrtle Ave.

N. J., Caldwell—Bd. Freeholders Essex County, Newark, will pave portion Bloomfield Ave., granite block. F. A. Reimer, Newark, County Engr.

N. J., Camden—(Official)—Stone Rd. Com. of Camden County receiving bids Oct. 11 for Grenloch Rd., bituminous surface on macadam foundation, 13,782 sq.yd. surface, 13,782 sq.yd. foundation and 10,000 cu.yd. excavation. J. J. Albertson, Camden, County Engr. (See adv.)

N. J., Hammonton—City receiving bids Oct. 11 for surfacing 15,910 sq.yd. Bellevue Ave., concrete. Remington & Vosbury, 6th and Market St., Camden, Engr. Noted Aug. 24.

N. J., Lyndhurst—Bd. Comrs. plans to improve Park Ave., asphalt.

N. J., Newark—City receiving bids Oct. 19 for paving portion Salem St., Porter Pl. and Custer Ave., concrete. M. R. Sherrard, City Engr.

N. J., Newark—City plans to pave portion Shephard Ave., bitulithic. M. R. Sherrard, City Engr.

N. J., Passaic—City soon receives bids for 18,000 sq.yd. asphalt paving on Passaic Ave. C. R. Wise, Municipal Bldg., Engr.

N. J., Passaic—Bd. Comrs. plans to pave portion Martha Pl., macadam. C. R. Wise, City Engr.

N. J., Trenton—City Comn. plans to pave Conover St., brick. L. D. Hirsch, City Clk.

N. J., Woodbury—Gloucester County receiving bids about Oct. 17 for paving Elm and Hardingville Rd., gravel, about $10,000. W. C. Cattell, Wenonah, Engr. Noted Sept. 7.

Penn., Aldan—(Official)—Council approved $10,000 bond issue for street improvements. Address A. M. Myers, Aldan. Noted Aug. 17.

Penn., Ambler—Montgomery County plans to improve Ridge Rd., about $94,000. Address County Clk., Norristown.

Penn., Greensburg—Westmoreland County receiving bids Oct. 29 for 3¼ mi. brick paving, including curbing and grading, about $70,000. W. G. Muse, Greensburg, Engr.

Penn., Kittanning—City plans to pave portion Walnut St.

Penn., Philadelphia—City receiving bids Oct. 28 for grading and paving various streets, also repairing bridges, about $150,000. C. E. Albright, City Engr.

Penn., Sharpsville—Council passed ordinance to pave portion 6th St.

Penn., West View—(Pittsburgh post office)—City receiving bids Oct. 10 for improving portion Chalfonte Ave. C. A. McClain, Borough Clk.

Penn., Williamsport—Council passed ordinance to issue $60,000 bonds for resurfacing West 3rd and 4th St., also storm-water sewers. J. B. Otto, City Engr.

Md., Baltimore—(Official)—State Rds. Comn., 601 Garrett Bldg., receiving bids Oct. 10 for Contract No. BC-26, 1 section Pennsylvania Ave. from North to Fulton Ave., asphalt; Contract No. BC-27, 1 section Hilton from Wesley St. to Frederick Rd., asphalt. F. H. Zouck, Chn. (See adv.)

Md., Baltimore—City election Nov. 7 to vote on $2,000,000 bonds for street improvements in Annex and $1,000,000 for improvements in old city limits. Former amount to be expended under supervision of Comrs. for Opening Streets and Annex Com. R. M. Cooksey, City Engr.

Md., Baltimore—(Official)—State Rds. Comn., 601 Garrett Bldg., receiving bids Oct. 16 for 1 section State Highway in Dorchester County, Contract D-19. F. H. Zouck, Chn. (See adv.)

Md., Salisbury—Wicomico County receiving bids Oct. 10 for 2 sections State-Aid Highway upon or along Jersey Rd. between Salisbury and Delmar, about 2 mi. H. M. Clark, Salisbury, Rd. Engr.

Va., Newport News—City plans election to vote on $50,000 street-improvement bonds. T. E. Pearse, City Engr.

Va., Norfolk—Council plans to widen Boush and Atlantic St., also curb, gutter and pave other streets. W. H. Taylor, Jr., City Engr.

Va., Portsmouth—City plans to curb and gutter Dinwiddie St., about $8,000. J. F. Weaver, City Engr.

W. Va., Moundsville—(Official)—City receiving bids Oct. 21 for paving portions Grant, Ash and Tomlinson Ave. A. Purdy, City Engr. Noted Sept. 7.

W. Va., Pennsboro—City receiving bids Oct. 20 for improving streets. Chavet & Armstrong, Fairmont, Engr. Noted July 20.

N. C., Hamlet—Town plans $50,000 bond issue for street improvements.

S. C., Greenville—(Official)—City voted $130,000 paving bonds. W. F. B. Haynesworth, City Engr. Noted Sept. 21.

S. C., Sumter—Council plans to spend about $30,000 for paving several streets. W. L. Lee, City Engr.

Fla., De Funiak Springs—Walton County election Nov. 21 to vote on $275,000 road bonds.

Fla., Jacksonville—Duval County plans $250,000 road-bond issue. Address County Clk., Jacksonville.

Fla., Milligan—Oakaloosa County to organize special road and bridge district and issue bonds for roads. Government to appropriate $14,000 toward work. Address County Clk., Milligan.

Fla., Tallahassee—Leon County receiving bids Oct. 10 for Meridian, Springhill, Centerville, Sunnyhill, Miccosukie, Bucklake, Wadesboro, Quincy and Woodville Rds. J. W. Jones, Tallahasse, County Engr.

Ala., Birmingham—City plans to pave, curb and gutter Cliff Rd. J. Kendrick, City Engr.

Ala., Birmingham—City Comn. adopted ordinance to pave portion Tuscaloosa Ave., asphalt, about $60,000. J. Kendrick, City Engr.

La., Convent—City voted $200,000 road bonds. Noted Aug. 17.

Tenn., Hamlet—Town plans to issue $50,000 bonds for street improvements.

Tenn., Nashville—City plans to grade Commerce St., about $5,800.

Tenn., Savannah—Hardin County sold $100,000 road bonds. A. A. Watson, Savannah, County Judge. Noted July 13.

Ky., Harlan—City soon receives bids for macadamizing principal streets.

Streets and Roads (Continued)

Ky., Henderson—(Official)—City soon receives bids for paving River Dr. Rd., about 1 mi. broken stone, $13,000. W. Hopkins, City Engr. Noted Sept. 21.

Ky., Louisville—City directed S. T. Mann, City Engr., to prepare estimate of cost of macadamizing portion Culbertson Ave., also to repair portions Beeler and Chartres St.

Ohio, Akron—City plans improving portion Dick St. J. A. Gehres, City Engr.

Ohio, Akron—Summit County soon receives bids for brick paving on Manchester Rd., about $5,500. U. G. High, Akron, Clk.

Ohio, Cincinnati—Council passed ordinance to improve portion Arch St. by paving and curbing with asphalt or bitulithic, also necessary drains and inlets and replacing 4-in. water main with 6-in. main. F. Krug, City Engr.

Ohio, Cincinnati—City receiving bids Oct. 10 for improving portion Ohio Ave. Charles F. Hornberger, Dir. Pub. Ser. F. Krug, City Engr.

Ohio, Cincinnati—City soon receives bids for paving Ellis, Fling and Vine St. and North Edgewood, Arrow and Beech Ave. F. Krug, City Engr.

Ohio, Cincinnati—Hamilton County receiving bids Oct. 20 for repairing portion Mill Rd. A. Reinhardt, Cincinnati, Clk.

Ohio, Cincinnati—City plans sidewalks on portions Kasota, 7th and Chariton St. and Hillside, Warsaw, Vanvey and Elberon Ave. F. Krug, City Engr.

Ohio, Cleveland—City election Nov. 7 to vote on $3,000,000 paving bonds. Robert Hoffman, City Engr. Noted Sept. 14.

Ohio, Cleveland—Cuyahoga County receiving bids Oct. 11 for improving Boston Rd. from State Rd. to county line. W. A. Stinchcomb, County Surv.

Ohio, Euclid—City receiving bids Oct. 9 for sidewalks on Vine, Abbey and East Miller St. F. A. Pease, Marshall Bldg., Cleveland, Engr.

Ohio, Fairview—Town receiving bids Nov. 7 for purchase of $10,200 bonds for sidewalks on Lorain St. R. P. Jordan, Clk.

Ohio, Hamilton—City receiving bids Oct. 12 for improving portion North 9th St. Frank E. Weaver, City Engr. Noted Sept. 7.

Ohio, Hamilton—City receiving bids Oct. 12 for improving portion Franklin and C St., Eaton and Progress Ave. Frank E. Weaver, City Engr. Noted July 6.

Ohio, Lebanon—Warren County receiving bids Oct. 9 for improving Lytle and Five Points Rd., Clear Creek Township. M. E. Ross, Lebanon, Clk. R. E. Miller, County Engr.

Ohio, Mansfield—Council adopted resolutions to improve portions Lida, Harker and Buckingham St. W. J. Hazleton, City Engr.

Ohio, Maumee—City sold $48,480 street improvement bonds. Noted Sept. 14.

Ohio, New Boston—City plans to improve Rhodes and Lakeview Ave., brick. S. G. Harper, Portsmouth, Engr.

Ohio, Niles—City plans paving portion C St. G. A. Gehres, City Engr.

Ohio, Steubenville—Bd. Control receiving bids Oct. 12 for improving portion Henry Ave. J. N. Leech, City Engr. Noted Sept. 28.

Ohio, Upper Sandusky—City to vote in November on $80,000 street paving bonds.

Ohio, Waynesfield—Village Trustees soon receive bids for paving Wapakoneta St., about $30,000.

Ohio, West Park—City receiving bids Oct. 16 for improving Settlement, Wiltshire and Belmont St. Lander Engineering Co., 306 American Trust Bldg., Cleveland Engr.

Ohio, Youngstown—Council passed ordinances to improve portions Clearmount, Park Cliff and Donald Ave. and Hylda St. F. M. Lillie, City Engr.

Ohio, Youngstown—Council passed ordinance to improve Cassius Ave. from East Madison Ave. to south line city lot 30,186. F. M. Lillie, City Engr. Noted May 18.

Ind., Terre Haute—City plans to repave South 8th St. F. A. Rattman, City Engr.

Mich., Adrian—Lanawee County voted $75,000 road bonds for Hudson Township. Address County Clk., Adrian.

Mich., Petoskey—City soon receives bids for paving Washington, Bulkley and Standish Ave.

Mich., St. Johns—City plans to spend about $20,000 for paving. W. Cochrane, City Clk.

Ill., Galesburg—City to build highway from Galesburg to Lincoln Park. F. M. Connolly, City Engr.

Ill., Rock Island—City made plans for paving 40 blocks 9th St., brick, about $81,749. W. McConochie, Chn. Bd. Local Impvt.

Wis., West Allis—Council Passed resolution to pave portion Greenfield Ave. G. Staal, City Engr.

Iowa, Des Moines—City plans to pave portion Ingersoll Ave. next spring. K. Kastberg, City Engr.

Iowa, Independence—Council soon lets contract for 53 blocks paving in 1st and 3rd wards.

Iowa, Sioux City—City plans brick, stone and cement sidewalks. T. H. Johnson, City Engr.

Iowa, Tipton—City making preliminary plans for 50 blocks paving, including curbing and guttering. M. Tschirigie & Sons, 712 American Trust Bldg., Cedar Rapids, Engr.

Kan., Atchison—Council passed resolution to grade, curb and pave portion 6th St. F. S. Altman, City Engr.

Kan., Lawrence—Council passed ordinance to pave and curb portion Elm St. E. H. Dunmire, City Engr.

Kan., Paola—Resolution passed to improve portion East St. O. E. Long, Clk.

Kan., Topeka—Council plans cement sidewalks on 12 streets. T. H. Johnson, City Engr.

Neb., Omaha—Douglas County plans to pave 2 mi. west Center St., brick, about $23,700.

Neb., Omaha—City plans to pave Ames Ave. from 36th to 48th St. J. A. Bruce, City Engr.

S. D., Mitchell—City plans to pave Sanborn St., about 11 blocks, concrete. T. Eastcott, City Clk.

Mont., Great Falls—(Official)—City receives bids for grading portion Central Ave. next spring, about $10,635. L. B. Evenson, City Engr. Noted Sept. 21.

Mo., St. Joseph—City soon receives bids for paving portion 10th St. C. P. Hoff, Engr.

Ark., Corning—Clay County made surveys for about 6 mi. road. Address County Clk., Corning.

Ark., Fayetteville—City plans to pave portion College Ave., about $17,000.

Ark., Texarkana—Bd. Impvt. of Dist. No. 20 receiving bids Oct. 30 for about 40,000-ft. concrete, asphalt, macadam, brick, cement or gravel paving. E. F. Peterson, Engr.

Tex., Brownsville—Cameron County, Dist. No. 7, plans election to vote on $15,000 road bonds. Address County Clk., Brownsville.

Tex., Cameron—Milam County plans election to vote on $15,000 road bonds for Dist. No. 7. Address County Clk., Cameron.

Tex., Canton—Van Zandt County defeated $150,000 road bonds for Precint No. 5. Noted Sept. 7.

Tex., Cumby—Hopkins County sold $50,000 road bonds. Address County Clk., Cumby. Noted May 4.

Tex., Dallas—Dallas County plans election to vote on $2,000,000 road bonds. Address County Clk., Dallas.

Tex., Dallas—City plans to pave portion Englewood Ave., vibrolithic. H. Moseley, City Engr.

Tex., Dallas—City plans to pave portion Tyler and 7th St., asphalt, and East Grand Ave., vibrolithic. H. Moseley, City Engr.

Tex., El Paso—G. Espy, City Engr., estimates cost of paving portion 2nd St. at $30,403.

Tex., Ft. Worth—City soon receives bids for paving portion Washington Ave. F. J. Von Zuben, City Engr.

Tex., Plano—Council plans to pave several streets in business district.

Tex., Weatherford—Parker County plans election to vote on $600,000 road bonds. Address County Clk., Weatherford.

Okla., Arapahoe—Custer County plans election to vote on $500,000 road bonds. Address County Clk., Arapahoe.

Okla., Tishomingo—Johnston County election Nov. 7 to vote on $20,000 road bonds. Address County Clk., Tishomingo.

Okla., Wilburton—Latimer County plans election to vote on $32,500 bonds for grading and macadamizing roads in Red Oak Township. Address County Clk., Wilburton.

Colo., Boulder—Boulder County plans $500,000 road-bond issue. Address County Clk., Boulder.

Colo., Pueblo—Council plans to create new paving district. D. P. Gaymon, City Engr.

Utah, Ogden—City plans to pave Washington Ave. to city limits. J. M. Tracy, City Engr.

Utah, Salt Lake City—Salt Lake County will vote in November on $40,000 or $50,000 road bonds. Address County Clk., Salt Lake City.

Wash., Seattle—Plans made for paving Roy St., about $10,500; 5th St., about $100,000. A. H. Dimock, City Engr.

Wash., Seattle—A. H. Dimock, City Engr., submitted report estimating cost of improving East 71st St. at $15,247.

Calif., Berkeley—Alameda County to spend about $60,000 for paving various streets. Address County Clk., Oakland.

Calif., Los Angeles—Council adopted ordinance to improve portion Lincoln Ave. H. Hamlin, City Engr.

Calif., Los Angeles—Council adopted ordinance for paving portion 18th St. and Grand Ave. G. Cromwell, City Engr.

Calif., Redding—City plans election in November to vote on $15,000,000 bonds for road work.

Calif., San Diego—City making plans for paving 1 mi. Biological Grade Rd. G. Cromwell, City Engr.

Calif., San Jacinto—City plans election to vote on $30,000 paving bonds.

Calif., San Mateo—Trustees Hayward Park plan to pave all streets.

Calif., Visalia—City passed resolution to pave North Church St., about $60,000; also pave portion of East Main St., South Court, Acequia, Mineral, and North Endina St. and King and Tulare Ave.

Ont., Niagara Falls—City plans to macadamize Barker and Morrison St.

Ont., Ottawa—Dominion Government plans to repave Wellington St., about $70,000. R. E. Desrochers, Ottawa, Secy. Dept. Pub. Wks.

Bids In and Contracts Awarded

Mass., Arlington—(Official)—Metropolitan Park Comn., Boston, let contract grading, filling and culvert for Mystic Valley Pkway, Extension from Mystic to Medford St., to J. H. FANNON, Somerville, $12,950.

Mass., Boston—Massachusetts Highway Comn. let contract roads in Bourne and Plymouth Townships to CENTRAL CONSTRUCTION CO., Southampton, about $7,402.

Mass., Boston—State Highway Comn. let contract road in Norwell Township to E. J. ROURKE, Abington, $7,221.

Mass., Pittsfield—Bd. Pub. Wks. let contract sidewalks North and West St. to EMERSON & GERMAIN.

Conn., Hartford—City let contract macadam paving on Olmstead St., East Hartford, to L. SUZIO CONSTRUCTION CO., Hall Bldg., Meriden.

Conn., Hartford—Bd. Contract and Supply let contract 12,400-sq.yd. rein.-con. on Richfield and Scarborough St. to F. A. BARONE, 16 Winchester St., about $12,070.

Conn., New Canaan—City let contract paving South Ave. and Smith Ridge Rd. to WARREN BROS. CO., 142 Berkeley St., Boston, about $47,000.

Conn., Norwalk—City plans to spend about $7,000 for concrete paving. Work will be done by day labor. G. A. Sherron, City Engr.

N. Y., Amsterdam—City let contract grading Evelyn St. to C. G. SYNDER .

N. Y., New York—(Bronx)—(Official)—Contract paving portion East 213th St. and Dyre Ave. let to O. DANIELS CO., Woolworth Bldg., Manhattan, about $22,178 and $22,806, respectively. Noted Sept. 14.

N. Y., New York—(Bronx)—(Official)—Contract paving College Ave. and Southern Blvd. let to W. F. PRESLEY, about $11,661 and $16,170, respectively. Noted Sept. 14.

N. Y., New York—(Borough of Bronx)—(Official)—DABNEY ASPHALT CO., 177th St. and Westchester Ave., at $12,050, awarded contract repaving portion Daly Ave. Noted Oct. 5.

N. Y., New York—(Brooklyn)—(Official)—M. J. O'HARA, 577 3d St., at $9,460, awarded contract resurfacing Bay Pkway. Noted Oct. 5.

N. Y., New York—(Brooklyn)—(Official)—Contract paving portion Smith St. let to NEWMAN & CAREY CO., 1228 Nostrand Ave., $22,272; 88th St., McKENNA & GALLAGHER, 1386 Sterling Pl., $6,046. Noted Sept. 28.

N. Y., New York—(Brooklyn)—(Official)—M. J. O'Hara, 577 3rd St., low bidder repaving 30th St. from bulkhead to 2nd Ave., $7,745, from 2nd to 3rd Ave., $11,608; Standard Oil Co., 26 Broadway, for 80,000 gal. refined asphalt, liquid form. Noted Sept. 1.

N. Y., New York—(Manhattan)—(Official)—Contract regulating roadway Chambers St. let to W. J. FITZGERALD, 547 West 45th St.

N. Y., New York—(Manhattan)—(Official)—M. J. O'Hara, 577 3rd St., Brooklyn, at $32,841, low bidder repaving south road Williamsburg Bridge. Noted Sept. 21.

N. Y., New York—(Manhattan)—(Official)—M. Baird Contracting Co., 433 East 92d St., at $53,472, low bidder granite block pavement on concrete foundation roadway of Central Park Tranverse Rd. No. 2 from 5th Ave. and 79th St. to Central Park West and 81st St.; W. J. Fitzgerald, 547 West 35th St., at $48,540, for same work with redressed granite block pavement on concrete foundation. Noted Sept. 28.

N. Y., Schenectady—City let contract paving to D. LEWIS.

N. Y., Syracuse—City let contract resurfacing portion Fitch St. to WARNER-QUINLAN CO., 79 Wall St., New York, $9,376.

N. J., Bergenfield—City let contract sidewalks portion Bergen Ave. to TAVELIERRE & JOHNSON, Washington Ave., Tenafly.

N. J., Camden—City let contract paving portion Elm. St. to N. P. CORSON, 1141 Sycamore St. Noted July 20.

N. J., Montclair—City let contract paving Orange Rd. to CONTINENTAL CONSTRUCTION CO., Montclair, $1.05 per sq.yd.; Laurel Rd., to M. TUSCO, Montclair, $1.00 per yd. Noted Aug. 17.

N. J., Newark—R. Sangiovanni, at $5,372, low bidder paving portion Cedar Ave. M. R. Sherrard, City Engr. Noted Sept. 7.

N. J., Newark—City let contract repaving Roseville Ave. to J. S. GEIGER SONS, 80 Hartford St., $42,643. Noted Sept. 14.

N. J., Newark—City rejected bids for repaving portion Jefferson St.

N. J., Newark—City let contract paving to STANDARD BITULITHIC CO., Essex Bldg., Strengel Ave., $9,953; Porter Ave., $5,719. Noted Sept. 21.

N. J., Newark—City let contract paving portion Elm Rd. to STANDARD BITULITHIC CO., $15,338.

Streets and Roads (Continued)

N. J., Newark—Low bidders paving portion Prince St., (a) granite, (b) wood block, were: A. J. Milmoe, (a) $20,718, (b) $21,589; O'Gara & McGuire, (a) $22,104, (b) $20,632; Newark Paving Co., (a) $24,194, (b) $21,179. Noted Sept. 7.

N. J., Ridgefield Park—Bd. Comrs., Municipal Bldg., 234 Hackensack Rd., Ridgefield Park, received low bid for improving Grove St. from A. W. Gill, Leonia. About $4,420. Noted Sept. 21.

N. J., Ridgefield Park—Bd. Comrs., Municipal Bldg., 234 Hackensack Rd., Ridgefield Park, received low bid for improving portion of Gordon St. from A. W. Gill, Leonia. About $11,134. Noted Sept. 21.

N. J., West New York—City let contract improving portion Bergenline Ave. to G. J. HORNING, 516 16th St. Noted Sept. 14.

Penn., Cannonsburg—Council let contract furnishing about 341,000 paving brick to C. P. MAYER BRICK CO., Bridgeville.

Penn., Du Bois—City let contract paving Orange Alley to J. T. MINNS, about $5,200.

Penn., McClellandtown—County let contract improving McClellandtown, Punta and McClellandtown-Lambert Rd. to J. T. HOOVER, Uniontown, about $15,000.

Penn., McConnellsville—County let contract paving Kennebec Hill Rd. to W. H. QUIGLEY, about $16,362.

Penn., Manor—City let contract grading and curbing portion Cleveland Ave. to H. DEVANGELES, Irwin.

Penn., Monessen—City let contract 7,500 sq.ft. sidewalks on 9th St. to W. B. TAYLOR, Charleroi.

Penn., Nanticoke—City let contract paving portion North Market St. to CARADOC & REES. Noted Mar. 23.

Penn., New Brighton—City let contract sidewalks, paving, curbing and guttering portion 12th Ave. to M. GREEK.

Penn., Philadelphia—City let contract paving portion Front St. to MACK PAVING AND CONSTRUCTION CO., 20th and Sedgley Ave., about $4,800.

Penn., Pittsburgh—City let contract improving 4th Ave. to BOOTH & FLINN, 1942 Forbes St.; Alderson St., G. S. WHITE CO., Jenkins Arcade. Noted May 4.

Penn., Pittston—City let contract paving upper William St. to E. QUINN, Plymouth, $7,980; South Main St., O'BRIEN BROS., Avoca., about $82,000.

Penn., Prospect—Council let contract paving to UNION PAVING CO., Philadelphia, about $35,000.

Penn., Scranton—City let contract paving portion Wyoming Ave. to MATTHEWS STIPP, 435 Moir St., about $12,837. Noted July 6.

Penn., Yeadon—Borough let contract curbing to M. A. ARNOLD, Manhattan Bldg., Philadelphia, about $4,000.

Del., Wilmington—Newcastle County received low bid Newport Pike from J. Levy, $12,222.

Va., Fredericksburg—City let contract unimproved road in national highway between Fredericksburg and Washington to PERKINSON & FINN, Quantico, about $19,909.

Va., Gate City—County let contract 7½ mi. macadam road to MITCHELL & COCHRANE CO., Chatham.

Va., Suffolk—City plans to spend about $6,000 for resurfacing Franklin and Pinover St. by day labor.

W. Va., Charleston—(Official)—Kanawha County let contract 8 mi. road work in Big Sandy Dist. to F. J. McGUIRE, Norfolk, about $173,655. Noted Sept. 7.

W. Va., Spencer—Roane County to spend about $250,000 for road work in Spencer Dist. Work to be done by force account. B. Woodward, Spencer, Engr. Noted Apr. 20.

N. C., Stacy—County let contract 4.25 mi. road to J. W. BOON, Newport.

Fla., St. Augustine—County let contract 11 mi. road to GLEISSON & HANCOCK, about $23,500.

Ala., Birmingham—City Comn. let contract improving portion 5th Ave. to P. RICHTER, about $11,000.

Ala., Gadsden—(Official)—City let contract curbing, guttering and sidewalks to C. O. DUNCAN.

Ala., Scottsboro—Jackson County rejected bids for improving Woodville and Limerick Highways. Noted Aug. 31.

Ala., Tuskegee—Macon County let contract improving Tuskegee and Notasulga Highways to SANLEY & SINGER, Lafayette, about $7,000. Noted Aug. 31.

Miss., Koselusko—Attala County let contract 8 mi. gravel roads to C. C. SCARCY & CO., Columbus; 17½ mi. to F. D. HARVEY & CO., Starksville.

Tenn., Lawrenceburg — (Official) — Lawrence County Highway Comn. let contract improving Jackson Military Rd., 36 mi., to B. WILLIAMS, McMinnville, about $136,076. Noted Sept. 7.

Tenn., Memphis—City let contract paving portion Front St. to E. J. WETTERSTRON, Kansas City, Mo.

Tenn., Morristown—City let contract paving and guttering streets in Impvt. Dist. No. 10 to GIBSON CONSTRUCTION CO. Noted Sept. 7.

Ky., Carrollton—Carroll County let contract 4 mi. new pike and reconstructing 2½ mi. old pike on Carrollton and Bedford Rd. to S. COOMBS, Carrollton.

Ky., Greenup—Greenup County to grade and macadamize roads by force account.

Ky., Owensboro—Daviess County rejected bids for improving River and Livermore Rd. Noted Sept. 7.

Ohio, Alliance—Council let contract paving portion South Freedom St. to J. WILSON. Noted June 29.

Ohio, Bowling Green—Wood County let contract improving Albert Ayers Rd., Lake Township, to C. J. MILLER, Chamber of Commerce Bldg., Toledo, about $28,094.

Ohio, Canton—Bd. Control let contracts paving various streets as follows: Bank Pl. and Garfield Ave., brick, to W. H. STANTON, Canton, about $6,893; Rex Ave., brick, to F. A. DOWNS CONSTRUCTION CO., Canton, about $13,157; Clarendon Ave., asphalt, to CLEVELAND TRINIDAD PAVING CO., Cleveland, about $45,789; 3d St., brick, to BURD CONSTRUCTION CO., about $46,447; 10th Ave., brick, to N. E. WISE, Canton, about $15,361; 11th St. and Yale Ave., brick, to F. A. DOWNS CONSTRUCTION CO., Canton, about $20,907 and $5,066. Noted Sept. 21.

Ohio, Cincinnati—Bd. Control let contract roads, grading, etc., in Ault Park to R. E. CASH, 409 Lincoln Inn Court, about $38,030.

Ohio, Cleveland—City let contract improving Shaker Blvd. to BENTLEY BROS. CO., $41,700; Shoker Blvd. to CLEVELAND-TRINIDAD PAVING CO., $137,700.

Ohio, Cleveland—Five Point Allotment Co., Park Bldg., let contract grading St. Clair Ave. to WARD BROS., sewers to RIVER CONSTRUCTION CO., Mayfield Rd. About $60,000.

Ohio, Cleveland Heights—(Warrensville post office)—City let contract improving Cleveland Heights Blvd. to ASPHALT BLOCK PAVEMENT CO., 701 Marshall Bldg., Cleveland. Noted Aug. 31.

Ohio, Cleveland Heights—(Warrensville post office)—City let contract improving Hampshire Rd. to CLEVELAND-TRINIDAD PAVING CO., 420 Lakeside Ave., Cleveland. Noted Aug. 17.

Ohio, Columbus—(Official)—Franklin County let contract road between rails of Ohio Electric Railroad Co. along center line of Mason Rd. Impvt., Bexley Village and Marion Township, to G. H. HEFFNER & SON, Celina, $4,072. Noted Sept. 21.

Ohio, Columbus—State Highway Comn. received bids Sept. 28 for highways in various counties as follows: Adams County, Section "A" West Union-Hillsboro Rd., water-bound macadam, 2.5 mi., Thomas Dalton, Dayton, $19,023. Adams County, Section "C" West Union-Sinking Springs Rd., water-bound macadam, 2.82 mi., J. M. Graham Co., Peebles, $19,040. Clinton County, Section "E" Cincinnati-Chillicothe Rd., water-bound macadam, 0.77 mi., Ohio Marble Co., Piqua, $4,962; Wilson Engineering Co., Xenia, $4,810. Harrison County, Section "D" Cadiz-Dennison Rd., water-bound macadam, 2.0 mi., A. G. Morgan, Cadiz, $10,913. Huron County, Section "B" Barberton-Greenwich Rd., concrete, 1.11 mi., Crawford & Little, Elyria, $12,974; Graves Barrett & Leach, New London, $12,936; Hill & Hill, Elyria, $12,821. Logan County, Section "D" Bellefontaine-Richwood Rd., concrete, 0.34 mi., Obrien & Green, Marysville, $5,994. Lorain County, Section "N" Oberlain-Elyria Rd., brick, 0.33 mi., contract No. 1, C. E. Williams, Grand Rapids, Mich., $12,098; Graves, Barret & Leach, New London, $12,140, (B) $10,387, Contract No. 2, C. E. Williams, $10,288, $4,212.50; Graves, Barret & Leach, $4,180. Ottawa County, Section "H" Toledo-Elmore Rd., water-bound macadam, 1 mi., Hamin & Hamin, Bellevue, $8,611; W. G. Mustard, Ada, $8,611; Muldoon & Bergman, Genoa, $8,412. Richland County, Section "J-2" Mansfield-Shelby Rd., reinforced concrete and cinders, 0.38 mi., E. M. Deitz, Millersburg, $4,489. Trumbull County, Section "R" Youngstown-Sharon Rd., brick, 1.14 mi., McDermott & Hammond, Niles, $21,362; J. C. Devine Co., Alliance, $22,277; William McIntyre & Sons, Sharon, Penn., $22,810. Tuscarawas County, Section "A" Canton-Canal Dover Rd., 2.97 mi., Mack Wardell, Strasburg, $14,219. Vinton County, "A" McArthur-Gallipolis Rd., 1.77 mi., Keuhner & King, Jackson, $16,350; concrete, $17,443; brick, $19,432; Culbertson & Culbertson, Richmond, Ind., concrete, $17,425; brick, $19,360. Washington County, Section "A" Marietta-McConnellsville Rd., 1 mi., D. G. Shafer, Caldwell, $6,321; S. A. Palmer, Marietta, $6,280; Patton & Faust, Lowell, $6,159. Washington County, Section "M" Hockingport-Powhatan Rd., 0.96 mi., Ames & Burdell, Parkersburg, W. Va., $3,658; S. A. Palmer, Marrietta, $3,430. Wyandotte County, Section "A" Bucyrus-Nevada Upper Sandusky Rd., bituminous macadam, 4.77 mi., Long & Ankine, Upper Sandusky, $26,898; Graham & Kinnear, Columbus, $28,969; Forest Construction Co., Forest, $28,969. Cuyahoga County, Section "A" Cleveland-Sandusky Rd., brick, Elyria Construction Co., Elyria, $150,194; Hart & Kemp, Elyria, $158,155; Really Bros., Cleveland, $162,915; concrete, Cleveland Trinidad Paving Co., Cleveland, $151,504; Hart & Kemp, Elyria, $149,675; Pace Bros., Cleveland, $154,477; bitulithic, Cleveland Trinidad Paving Co., Cleveland, $159,457.

Ohio, Dayton—City let contract paving to T. P. STRACK, Goodall Bldg., Cincinnati, about $10,000.

Ohio, Defiance—County let contract paving Ottawa Pike to R. C. ROACH, about $64,000.

Ohio, Dillonvale—(Official)—City let contract paving portion Church Alley and Thomasson St. to ROSSER & MALONEY, Bellaire, about $4,200. Noted Aug. 31.

Ohio, Gibsonburg—Council let contract paving West Madison and North Main St. to MODERN CONSTRUCTION CO., Fremont.

Ohio, Greenville—Darke County let contract improving Star Rd., York Township, to ALEXANDER BROS., Versailles, $11,179.

Ohio, Jewett—Borough let contract paving and curbing and storm sewer to CASS & MEYER, Wheeling, W. Va., about $15,000.

Ohio, Lima—(Official)—City let contract paving Robb and Fairview Ave. to H. S. ENCK, Lima. Noted Sept. 21.

Ohio, Lisbon—City let contract paving and curbing North Market St. to McLANE & HEPBURN, about $9,900.

Ohio, Marion—City let contracts about 45,954 sq.yd. sidewalks to O. J. NOBLE, HAFFSTETTER & DAWSON and J. H. KINSLER. Noted Aug. 31.

Ohio, Napoleon—Henry County let contract 3 mi. stone road in Richfield Township to GAGHAN, McGEE & STROHL, Custer, $25,242.

Ohio, Niles—City let contract paving Main St. to J. DEJUTE, about $19,000.

Ohio, Ottawa—(Official)—Council let contract draining and macadamizing 2nd St. to GOETSABIUS & McDOWELL, Ottawa, about $8,382. Noted Sept. 14.

Ohio, Piqua—City let contract curbing, guttering and paving portion Robinson Ave. to J. J. SHANNON.

Ohio, Portsmouth—City let contract paving and curbing to S. MONROE & SON, about $4,500. Noted Aug. 3.

Ohio, Springfield—City let contract paving portion Cassilly St. to W. F. PAY, about $15,000; Pleasant St., M. J. HANNON, about $18,000.

Ohio, Springfield—City let contract paving portion Grube Rd. to M. J. HANNON, about $8,000. Noted Oct. 5.

Ohio, Tiffin—City received bids improving portion St. Clair St. from L. Schauder and G. Stewart. Noted Sept. 21.

Ohio, Tiffin—L. Schauder only bidder repaving North Washington St. Noted Sept. 21.

Ohio, Upper Sandusky—Wyandotte County let contract Rd. No. 75, Salem Township, to FOREST CONSTRUCTION CO., $5,500; Rd. No. 76, Salem-Mifflin Township, SHEPPARD BROS. & TAYLOR, Kenton, $4,515.

Ohio, Warren—City let contract paving and curbing Buckeye and Mulberry St. and Summit St. bridge approaches to F. L. GEIGER, about $35,000. Noted Sept. 28.

Ohio, Warren—Trumbull County let contract road in Newton Township to McDERMOTT & HANNON, Niles, about $17,223.

Ind., Anderson—Low bidders paving portion Central Ave. were D. J. Dalton, concrete, $8,534; Daniels & Lyst, brick, $12,151. Noted Aug. 10.

Ind., Columbus—(Official)—Bartholomew County rejected bids for 3 concrete roads in Columbus Township. Noted Aug. 31.

Ind., Columbus—(Official)—Bartholomew County let contract rock road in Rock Creek Township to G. T. NUGENT, Hartsville, about $7,938. Noted Sept. 7.

Ind., Danville—(Official)—Hendricks County let contract road in Washington Township to ERGANBRIGHT & DISNEY, North Salem, about $11,400. Noted Sept. 7.

Ind., Indianapolis—City let contract paving portion Broadway to REPUBLIC CONSTRUCTION CO. Noted July 20.

Mich., Grand Rapids—Kent County let contract road work to BOYES & BLANDFORD, about $35,642.

Mich., Grosse Pointe Park—City let contract paving to CLEVELAND-TRINIDAD PAVING CO., 2940 Woodward Ave., Detroit.

Mich., Lapeer—Lapeer County let contract road work to J. W. SLATTERY, North Branch, about $22,400.

Mich., Mt. Clemens—Council let contract about $34,000 worth paving to METROPOLITAN PAVING BRICK CO., Canton.

Mich., Pontiac—City let contract paving to J. H. PARKER & SONS.

Mich., Port Huron—(Official)—City let contract paving portions 10th and Suffern St. and 10th Ave. to J. H. BAKER & SON, about $4,000. Noted Sept. 14.

Ill., Belleville—Bd. Local Impvts. let contract improving various streets to HOEFFKEN BROS., West B St.

Ill., Berwyn—City let contract paving 4 streets to R. F. CONWAY CO., Chicago. Noted Aug. 17.

Ill., Carterville—(Official)—City let contract paving to KEELEY BROS., East St. Louis, about $33,000. Noted Sept. 21.

Streets and Roads (Continued)

Ill., Casey—City let contract paving to F. W. McELROY, Robinson, about $7,621.

Ill., Champaign—City let contract improving Union and 3rd St. and Park Ave. to STIPES & PILCHER, Champaign. Noted July 13.

Ill., Chicago—(Official)—Sanitary Dist. of Chicago received low bids for paving portion of 127th St. from W. J. Brady, Chicago, $4,895; W. A. Kenefick, Chicago, $7,560; James A. Sackley Co., Chicago, $6,600.

Ill., East St. Louis—City let contract improving Trendley and East St. Louis Ave. to LOUIS RICH CONSTRUCTION CO. About $32,000. Noted Aug. 24.

Ill., Jacksonville—City let contract paving South Clay Ave. to INTERSTATE PAVING CO., about $7,722. Noted Sept. 28.

Ill., Peoria—City let contract paving portion Behrends Ave. to MILLER & BUHL, about $14,435. Noted Aug. 17.

Ill., Stockland—City let contract paving to BISHOP & LIDDELL, Danville, about $56,000.

Wis., Merrill—City let contract paving Mill and 1st St. to CONDUCTIVE PAVING CO., $2.09 per sq yd. Noted Aug. 31.

Wis., Racine—City let contract paving to J. COPE & SONS.

Wis., Sheboygan—City let contract paving 14th St. to PRESTIEN & NAUMANN, about $11,993. Noted Sept. 21.

Iowa, Des Moines—City let contract resurfacing East 12th St. to J. HORRABIN CO.

Iowa, Dubuque—City let contract 25,000 sq.yd. paving to C. B. McNAMARA & CO., Dubuque.

Iowa, Emmetsburg—City let contract paving to ZITTERELL & SULLIVAN, Webster City, about $27,500.

Iowa, Estherville—Emmet County let contracts graveling 28 mi. roads to C. A. MITCHELL, Armstrong; W. E. HANSEN, Ringstead, and S. B. REED, Dolliver. Noted Aug. 31.

Iowa, Sioux City—City let contract paving 3 streets to J. OVERSEN, 2037 Lemon Ave. Noted Sept. 21.

Iowa, Valley Junction—City let contract about 66,000 sq.yd. bitulithic pavement to WARREN BROS., 59 Temple St., Boston, Mass. Noted June 8.

Minn., Duluth—D. H. Clough & Co., at $5,960, low bidder improving McCuen St.

Minn., St. Paul—Council rejected bids for paving portion Holly Ave. Work to be done by day labor.

Minn., St. Paul—City rejected bids for curbing and paving Mississippi River Blvd. Work to be done by day labor. O. Claussen, City Engr. Noted Mar. 30.

Kan., Atchison—T. K. Friedhoff low bidder concrete sidewalks on several streets.

Kan., Independence—City let contract paving and curbing to A. G. SHERWOOD, Independence, about $15,300. Noted Aug. 10.

Kan., Sterling—(Official)—City let contract paving several streets to J. H. SHEARS & SONS, Hutchinson, about $35,000. Noted Aug. 24.

Neb., Omaha—City let contract paving Happy Hollow Blvd. to H. MURPHY CONSTRUCTION CO., 246 Bee Bldg.

Mo., Joplin—City let contract paving portion Main St. to J. J. UNDERWOOD, Springfield.

Mo., Kansas City—Bd. Pub. Wks. let contract paving portion 12th St. to J. O'CONNOR & SON, 8,000 East 11th St., $30,285; Cleveland St., E. F. WILSON, $24,202; 51st St., A. JAICKS CO., American Bank Bldg., $14,720.

Mo., Kansas City—City let contract paving South West Blvd. to A. JAICKS CO., $60,507. Noted May 11.

Mo., St. Joseph—City let contract paving and sidewalks on portion Patee St. to METROPOLITAN CONSTRUCTION CO., Corby Bldg. Noted July 6.

Mo., Springfield—City let contract paving portion Proctor Ave. to JARRETT-RICHARDSON CONSTRUCTION CO.

Tex., Mt. Pleasant—City rejected bids for paving estimated to cost $15,000.

Tex., Pittsburgh—Camp County rejected bids for graveling 11½ mi. roads. Noted Apr. 13.

Tex., San Antonio—City let contract paving Elm St. to UVALDE ROCK ASPHALT CO., $1.66 per sq.yd.; Roman St., WESTERN PAVING CO., $1.70 per sq.yd.

Tex., Sweetwater—City let contract 4 blocks paving to J. MEYERS, $10,988.

Okla., Sand Springs—City let contract paving, asphaltic concrete, to STANDARD PAVING CO., San Antonio, Tex., $104,283. Noted Sept. 14.

Wash., Centralia—City let contract paving South Pearl St. to ALBERS & SON, Chehalis, about $6,000.

Wash., Colfax—Whitman County let contract grading 11 mi. Permanent Highway No. 12 to RISTVELDT & BRAGG, Colfax, about $39,150. Noted Aug. 31.

Wash., Everett—(Official)—City rejected bids for improving Wetmore Ave. Noted Sept. 14.

Wash., Seattle—City let contract paving Olive St. to COLUCCIO & NIBLETT, Seattle, about $21,726. Noted Sept. 28.

Wash., Spokane—City let contract curbing portion Adams St. to C. M. PAYNE.

Ore., Cottage Grove—City let contract improving 2nd St. to BEIDLER BROS.

Ore., North Bend—City let contract paving to DEAN & BROWN, North Bend, about $28,054.

Calif., Fowler—Cornfield & Davis, Bakersfield, at $7,750, low bidder about 6,000 lin.ft. concrete pavement.

Calif., Los Angeles—City let contract improving portion De Longre Ave. to G. R. CURTIS, about $7,417.

Calif., Los Angeles—Los Angeles County let contract improvement work in Dist. No. 124 to SOUTHERN CALIFORNIA CONTRACTING CO., Title Insurance Bldg., about $33,534.

Calif., Los Angeles—E. A. Baker, Hellman Bldg., at $13,250, low bidder 2.7 mi. concrete pavement on Lexington and Gallatin Rd. and Durfee Ave., Rd. Dist. No. 103.

Calif., San Jose—City let contract paving to J. W. McDONALD CO.

Calif., Santa Barbara—City received low bid paving portion Mission Ridge Rd. from Paul & Calkwell, Stockton, $53,337. Noted Aug. 24.

Calif., Santa Paula—City let contract about 220,000 sq.ft. paving and culverts on Main St. and Telegraph St. to FAIRCHILD-GILMORE-WILTON CO., Ventura.

Calif., Whittier—City let contract improving portion West Philadelphia St. to CALIFORNIA-ARIZONA CONSTRUCTION CO., 1700 East Washington St., Los Angeles.

N. S., Trenton—City let contract paving to FAGE & LUSBY, Amherst, about $32,000.

INDUSTRIAL WORKS

Proposed Work

Mass., Boston—Quincy Market Cold Storage and Warehouse Co., 133 Commercial St., making plans for 11-story cold-storage plant. J. P. Worcester & Co., 79 Milk St., Engr. Noted June 15.

Mass., Springfield—Pinkus Bess plans garage at Union and Hancock St. About $30,000.

N. Y., Albany—A. Mendleson's Sons, 20 Broadway, making plans for factory. About $80,000. A. Selkirk, 133 North Pearl St., Arch.

N. Y., Hamburg—Hamburg Planing Mill Co. making plans for 2-story, 50x100-ft. mill. About $20,000. Lansing, Bley & Lyman, 212 Prudential Bldg., Buffalo, Arch.

N. Y., New York—(Queens)—A. C. Horn Co., Bodine St., Long Island City, making plans for factory at 14th St. and Boulevard. Schwartz & Gross, 347 5th Ave., Manhattan, Arch.

N. Y., Niagara Falls—National Carbon Co. making plans for 1-story, 135x300-ft. factory. About $50,000. Osborn Engineering Co., Engineers Bldg., Cleveland, Ohio, Arch. and Engr.

N. Y., North Tonawanda—Rand Co. made plans for 3-story factory. About $45,000. R. J. Reidpath & Son, Builders Exchange, Buffalo, Arch. Noted Sept. 14.

N. Y., Troy—Troy Engine and Machine Co. making plans for 1-story foundry. About $50,000. Fletcher & Thompson, Inc., 1089 Broad St., Bridgeport, Conn., Arch.

N. J., Dover—Downs & Slater Co., Wharton, made plans for 1-story, 40x100-ft. foundry at Dover. About $18,000. Noted Sept. 7.

N. J., Jersey City—Lackawanna Terminal Stores Co., 15th and Provost St., made plans for 5-story, rein.-con. warehouse. MacDonald Engineering Co., 53 West Jackson Bldg., Chicago, Ill., Arch. Noted Aug. 3.

N. J., Newark—Martin Dennis Co., 859 Summer Ave., made plans for 2-story, 45x163-ft. factory. About $20,000. J. F. Capen, 207 Market St., Arch.

N. J., Paterson—Paterson Industrial Development Co. made plans 4-story brick and rein.-con. factory on Gray St. About $145,000. F. W. Wenworth, 140 Market St., Arch. Noted Aug. 24.

N. J., Union Hill—(Weehawken post office)—Hudson Dispatch-News made plans for 6-story, 100x120-ft. printing and office building. About $50,000. J. D. Lugosch, 21 Bergenline Ave., Arch. Noted Aug. 24.

Penn., Dunmore—Dunmore Silk Co. making plans for mill. J. T. Howley, Traders Bank Bldg., Scranton, Arch

Penn., Philadelphia—Cohlman & Sons, Inc., making plans for 3-story, 55x110-ft. factory. About $25,000. F. T. Uebell, 147 North 3rd St., Arch.

Penn., Philadelphia—General Scientific Equipment Co., 2718 West Lehigh Ave., making plans for 3-story, 110x125-ft. factory. Armando Alcantara, 2962 North Bailey St., Arch.

Penn., Philadelphia—A. Lieboritz, 1100 North 41st St., plans 3-story bakery. H. H. Kline, 536 Miffin St., Arch.

Penn., Pittsburgh—Aaron De Roy Motor Car Co. making plans for 4-story, 50x130-ft. garage and salesroom. About $80,000. Rutan & Russell, Magee Bldg., Arch. Noted Sept. 21.

Md., Adamstown—Thomas & Co. plans concrete grain elevator, warehouse and office building.

Md., Cumberland—Kelly-Springfield Tire Co., Springfield, Ohio, plans plant at Cumberland.

Va., Petersburg—J. B. North & Co., Inc., making plans for 2-story, 80x90-ft. ice plant. About $10,000. S. Daily Craig and C. W. Usbell, Archs.

Va., Richmond—American Locomotive Co. plans addition to plant at 7th and Hospital St. About $45,000.

W. Va., Fairmont—Fairmont Chemical Co. plans plant. About $85,000. L. A. Thiele, Columbus, Ohio, Engr.

W. Va., Parkersburg—Parkersburg Brewing Co. making plans for 3-story factory. C. D. Cooley Co., Century Bldg., Pittsburgh, Penn., Arch.

Ala., Birmingham—Alabama Great Southern R.R. plans sand house, coal chute, etc. C. Dougherty, Cincinnati, Ch. Engr.

Ohio, Cincinnati—Cincinnati Iron and Steel Co. soon receives bids for addition to plant, Front St. and Freeman Ave. Noted June 1.

Ohio, Cincinnati—Evanston Laundry Co. making plans for 2-story rein.-con. factory at Clarion Ave. and Montgomery Rd. Leibold & Gott, Arch.

Ohio, Cleveland—C. H. Foster, 1411 East 40th St., made plans for 1-story, 30x80-ft. warehouse. About $12,000.

Ohio, Cleveland—City making plans for 1- and 5-story, 100x100-ft. and 120x200-ft. storage building. About $100,000. F. H. Betz, City Hall, Arch. R. Hoffman, City Engr.

Ind., Bluffton—Great Northern Glove Co. receives bids in November for 2-story, 48x140-ft. factory. About $15,000. C. Kibele, Johnson Bldg., Muncie, Arch. Noted Aug. 17.

Ind., Ft. Wayne—P. A. Moran Ice Co. plans ice-storage building. About $30,000. A. C. Bishop, Citizens Bank Bldg., Cleveland, Arch.

Mich., Ann Arbor—University of Michigan, Dept. Bldgs. and Grounds, receives bids in November for 2-story, 60x70-ft. laundry. About $15,000.

Mich., Detroit—Booth Fisheries Co. making plans for cold-storage warehouse. P. L. Smithers, 22 East Monroe St., Chicago. Vice-Pres., J. Scott & Co., 2326 Dime Bank Bldg., Detroit, Arch.

Mich., Flint—Flint Spring Water Ice Co., 2025 South Saginaw St., plans 1-story plant. A. C. Bishop, Citizens Bldg., Cleveland, Arch.

Mich., Lansing—Lansing Pure Ice Co. plans storage building. About $20,000.

Mich., Monroe—River Basin Paper Co. plans factory on East Elm Ave. G. H. Wood, Gen. Mgr.

Ill., Chicago—McCormick Estates making preliminary plans for 11-story printing building. About $200,000. Schmidt, Garden & Martin, 104 South Michigan Ave., Arch.

Ill., Moline—Moline City Hospital soon receives bids for laundry and boiler house. About $15,000. Whitsitt & Schulzke, 610 Peoples Bank Bldg., Arch.

Wis., Fond du Lac—Damrow Bros. plans 2-story, 100x100-ft. factory at Brooks and Western Ave.

Wis., Madison—Capital City Culvert Co. plans to rebuild factory. G. L. Schneider, Pres.

Wis., Milwaukee—A. J. Linderman and Hooverson Co. made plans for 6-story, 102x119-ft. addition to plant. About $90,000. Klug & Smith, Mack Bldg., Engr.

Wis., Milwaukee—Peerless Knitting Co., 685 3rd St., making plans for 2-story, 75x120-ft. factory. About $10,000. H. V. Miller, M. & M. Bank Bldg., Arch.

Wis., Waukesha—Waukesha Motor Co. plans additions to plant. H. L. Horning, Secy.

Minn., Albert Lea—Union Stock Yards, Chicago, plans 5-story addition to packing plant. C. T. Barnett, Engr. and Supt. of Constr.

Minn., Anoka—Federal Cartridge and Machinery Co. making plans 2-story factory. About $15,000. Chapman & Magney, 509 Essex Bldg., Minneapolis, Arch.

N. D., Fargo—Equity Co-operative Packing Co. plans packing plant. About $1,000,000.

N. D., Marmarth—Chicago, Milwaukee & St. Paul Ry. plans stock yards and feeding pens. About $40,000. C. F. Loweth, Railway Exchange Bldg., Chicago, Ch. Engr.

Mo., St. Louis—Booth Cold-Storage Co. plans 8-story cold-storage plant. About $130,000.

Ark., Arkadelphia—Arkadelphia Milling Co. plans concrete grain elevator.

Tex., El Paso—J. O. Peyton plans packing plant. About $50,000.

Tex., San Benito—Borderland Sugar Corporation plans additions to plant.

Calif., Modesto—Borden Condensed Milk Co. plans plant. About $100,000.

Ont., Galt—Dominion Building Products, Ltd., plans plant. D. D. Williams, 263 Christie St., Toronto, Pres.

Bids in and Contracts Awarded

Mass., Boston—Philadelphia Storage Battery Co. let contract 2-story, 25x100-ft. battery service building to WILLIAM CRANE, Hayward & Amherst St., Cambridge.

Industrial Works (Continued)

Mass., Cambridge—Concrete Steel Products Co. let contract 2-story, 62x120-ft. warehouse to E. S. BUTTERFIELD & CO., 88 Broad St., Boston. About $10,000.

Mass., Holyoke—Norman Paper Co., 19 Appleton St., let contract addition to CASPER RANGER CO., Bond and Appleton St.

Mass., Springfield—New England Westinghouse Co. let contract factory on Page St. to F. L. LEY & CO., $10,000. Noted Sept. 16.

R. I., Providence—American Silk Spinning Co., Admiral St., let contract 2-story, 83x140-ft. factory to J. W. BISHOP CO.

Conn., Waterbury—Waterbury Farrell Foundry and Machine Co. let contract 6-story, 104x200-ft. factory to TORRINGTON BUILDING CO., Torrington.

N. Y., Amsterdam—Amsterdam Broom Co. let contract 2-story storehouse to C. B. MACHALD, 307 Guy Park Ave. About $12,000.

N. Y., Buffalo—Gerhard-Lang Brewing Co., 400 Best St., let contract 3-story, 86x88-ft. addition bottling plant to MITCHELL O'MALLEY, Breckenridge St. About $35,000.

N. Y., Elmira—American La France Fire Engine Co. let contract 1-story, 40x100-ft. machine shop and tool house to F. H. JOHNSTON CONSTRUCTION CO., 100 La France St. Noted Sept. 14.

N. Y., Elmira—G. L. Curtis, 109 East Church St., let contract 5-story warehouse to W. R. COMPTON REALTY AND CONSTRUCTION CO. About $20,000. Noted May 4.

N. Y., Greenport—Will & Laymer let contract 3-story, 70x178-ft. addition to plant to R. H. HOWES CONSTRUCTION CO., 105 West 40th St., New York. About $300,000.

N. Y., New York—(Manhattan)—C. Adams, 646 West 158th St., let contract 4 garages to W. S. TEMPLE, 401 West 149th St. About $48,000. Noted July 27.

N. J., Kearney—(Arlington post office)—Nairn Linoleum Co., Belgrove Dr., let contract factory to F. KILGUS, 13 South 6th St., Newark.

N. J., Paterson—Paterson Vehicle Co. let contract 3-story, 50x125-ft. addition to A. GLEEK & SON, 65 Garfield Ave.

N. J., Somerville—M. Baum, 282 East Main St., let contract addition to factory to RUNYON FIELD, Boundproof. About $10,000.

Penn., Catasauqua—Lehigh Thermometer Co. let contract 2-story factory to LANDENSLAGER & YOUNGER, Fullerton.

Penn., Chester—Chester Paper Co. let contract additions to R. CUMMINGS, 221 4th Ave., Pittsburgh. Noted Aug. 10.

Penn., Philadelphia—S. S. E. Motor Co. let contract brick machine shop to AUSTIN CO., 14230 Euclid Ave., Cleveland. About $30,000. Noted June 29.

Penn., Philadelphia—Temus Testing Machine Co., 500 North 12th St., let contract 4-story storage building to LAM BUILDING CO., 1001 Wood St. About $10,500.

Penn., Womelsdorf—Vogue Knitting Co. let contract factory to L. NIEBER, Lansford. About $10,000.

Md., Curtis Bay—Standard Guano Co., 1500 Continental Bldg., Baltimore, let contract addition at Curtis Bay to CHEMICAL CONSTRUCTION CO., Charlotte, N. C. Noted June 29.

Md., Sparrows Point—Bethlehem Steel Co., South Bethlehem, Penn., let contract ovens at Sparrows Point to H. COPPERS CO., Pittsburgh, about $2,000,000. Noted Mar. 2.

D. C., Washington—American Security Co. let contract 4-story, 20x10-ft. warehouse to BOYLE-ROBERTSON CONSTRUCTION CO., Evans Bldg. About $15,000.

D. C., Washington—R. McReymolds & Sons, 1423 East St., N. W., let contract 2-story printing plant and warehouse to J. H. NOLAN, Munsey Bldg., $15,000.

Va., Alexandria—Southern Ry. let contract roundhouse, machine shop, etc., to J. P. PETTYJOHN & CO., Lynchburg. Noted Aug. 24.

W. Va., Fairmont—(Official)—Fairmont Mining Machinery Co. let contract 90x120-ft. factory and 40x60-ft. pattern storage building to McCLINTIC-MARSHALL CO., Pittsburgh. Noted Sept. 21.

W. Va., Martinsburg—Sprinkle Bros. let contract 2-story printing plant to G. F. KEYTON, Martinsburg. About $20,000.

N. C., Roseboro—Williams & McKelthan Lumber Co. let contract planing mill to G. D. BRYAN, Roseboro. About $15,000.

Ga., Albany—Flint River Cotton Mills let contract 3-story addition to V. C. PARKER & SON, Albany. About $27,000.

Ohio, Akron—Summit Auto Garage Co. let contract 2-story garage to AKRON STORAGE AND CONSTRUCTION CO., Akron. About $50,000. Noted June 1.

Ohio, Cleveland—Cleveland Cadillac Co. let contract 2-story, 130x265-ft. service station to CROWELL, LUNDORFF, LITTLE CO., 1951 East 57th St. About $125,000. Noted Aug. 17.

Ohio, Cleveland—Adams Express Co. let contract 2-story garage at St. Clair Ave. and East 17th St., to J. R. GLOYD CO., Prospect Ave. About $25,000. Noted Mar. 2.

Ohio, Cleveland—(Official)—Aluminum Castings Co. let contract plant to AUSTIN CO., 722 Citizens' Bldg., Cleveland.

Ohio, Cleveland—Grabler Manufacturing Co., 6565 Broadway, let contract 60x100-ft. factory to S. EMERSON CO., 1041 B. & L. E. Bldg. Noted May 4.

Ohio, Cleveland—Perry-Prospect Co. let contract warehouse at 2111 Prospect Ave. to MASTERS & MULLEN CONSTRUCTION CO., 454 Rose Bldg. About $15,000. Noted Aug. 24.

Ohio, Cleveland—Guggenheim Co., 2152 Superior Ave., let contract 1-story, 90x160-ft. factory to DE HAMMEL CONSTRUCTION CO., American Trust Bldg. About $25,000.

Ohio, Cleveland—Realty Holding Co. let contract 1-story, 100x500-ft. factory to WALTHER ENGINEERING AND CONSTRUCTION CO., 1941 East 66th St. About $110,000.

Ohio, Cleveland—Standard Oil Co., 3225 East 55th St., let contract 2 factory buildings to CROWELL, LUNDOFF, LITTLE CO., 1951 East 57th St. About $250,000.

Ohio, Elyria—Prestell Co. let contract 1-story factory to JOHN KAISER & BROS. CO., Elyria. About $200,000. Noted Sept. 7.

Ohio, Massillon — (Official) — Peerless Drawn Steel Co. let contract factory to AUSTIN CO., 14230 Euclid Ave., Cleveland. Noted May 4.

Ohio, Warren—Packard Electric Co. let contract 3-story addition to HELLER BROS., Youngstown, $65,000. Noted June 22.

Ohio, Youngstown—Henderson Overland Co. let contract garage and salesroom to HENDERSON CONSTRUCTION CO., Dollar Savings Bank Bldg. About $80,000.

Ind., Buffington—Universal Portland Cement Co. let contract 2-story, 125x425-ft. storage building to NASH, DOWDLE CO., 29 South La Salle St., Chicago, $36,000.

Ind., East Chicago—Indiana Box Co. let contract 1-story, 100x200-ft. factory to J. F. RAHM, 227 Calumet Bldg.

Ind., Indiana Harbor—Mark Manufacturing Co. let contract 1- and 2-story rolling mill and power house to STONE & WEBSTER ENGINEERING CO., Boston, Mass. Noted June 22.

Ind., Terre Haute—Calumet Laundry let contract 2-story laundry to CALLAHAN & SHOCK, 3481 Michigan Ave.

Ill., Chicago—Payson Manufacturing Co. let contract 3-story factory at 2916 West Jackson Blvd. to C. F. HOLMAN, Chicago. About $15,000. Noted Feb. 3.

Ill., Chicago—Berkson Bros., 1446 Blue Island Ave., let contract 2-story, 35x50-ft. warehouse to H. GORELNICK, 1522 South Hanlin Ave. About $10,000. Noted Aug. 17.

Ill., Chicago—North American Brewing Co. let contract 3-story, 33x34-ft. addition to stock house to E. L. ARCHIBALD & CO., 111 West Washington St.

Ill., Chicago—Western Plumbing Supply Co. let contract 3-story, 50x124-ft. addition to warehouse to A. WITT, 3009 North Hamlin Ave. About $33,000.

Wis., Madison—J. Nevins let contract 2-story repair shop and garage to L. B. GILBERT, Ellsworth Bldg. About $30,000.

Wis., Milwaukee—Briggs & Stratton Co., 258 Milwaukee St., let contract 5-story, 60x220-ft. rein.-con. and brick factory to O. H. BOSSERT CO., 848 Jackson St. Noted Sept. 14.

Wis., North Milwaukee—J. Greenebaum Tanning Co., Hampton Ave., let contract addition to factory to PAUL RIESEN & SONS CO. Noted Aug. 31.

Wis., West Allis—Steam Appliance Co., 63d and Burnham St., let contract foundry to FOSTER CONSTRUCTION CO.

Minn., Duluth—Standard Oil Co. let contract, machine and repair shop and garage to N. A. BERGSTROM, 114 South 18th Ave. About $10,000.

Minn., Mankato—Dillner & Holbrook Co., 215 South 2d St., let contract 1-story, 55x150-ft. garage to ANDERSON-WHITSON CO.

Minn., St. Paul—Ballard Fireproofing Storage and Transfer Co., 20 East 4th St., let contract 2-story, 83x117-ft. addition to warehouse to H. C. STRUCHEN, Dacota Bldg. About $14,000.

Calif., Alameda—Union Iron Works let contract plate shop on Webster St. to LANGE & BERGSTROM, Sharon Bldg., San Francisco, $75,000. Noted Aug. 17.

Calif., Brawley—Southern Sierras Power Co. let contract ice and cold-storage plant to F. L. SOMERS. About $100,000. Noted May 4.

Calif., Los Angeles—Central Milling Co. let contract 5-story brick flour mill at Commercial and Vignes St. to TAYLOR BROS., 504 Black Bldg. Noted Aug. 3.

Que., Montreal—A. McArthur & Co., Ltd., let contract factory to MacBEAN & WILLIAMS, 29a Belmont St. About $40,000.

Que., St. Jerome—Canadian Consolidated Rubber Co., Ltd., Montreal, let contract addition to plant at St. Jerome to GRAY & DUNN, Montreal.

Ont., Brantford—C. J. Mitchell, 53 Darling St., let contract garage to P. H. SECORD & SONS. About $20,000. Noted Mar. 30.

Ont., Hamilton—Chipman & Hollo Knitting Co., Ltd., 122 Mary St., let contract factory to G. MILLS, King St. About $15,000.

Ont., Port Arthur—Saskatchewan Co-operative Elevator Co., 12th and Smith St., Regina, let contract grain elevator at Port Arthur to BARNETT & MacQUEEN, 203 Cuthbertson Blk., Ft. William. About $800,000. Noted Mar. 30.

Ont., Port Colborne—International Nickle Co. let contract plant to FOUNDATION CO., Montreal. About $5,000,000. Noted Aug. 24.

FEDERAL GOVERNMENT WORK

Proposed Work

Mass., Gloucester — Retaining Basin — Comr. Fisheries, Dept. Commerce, Washington, receiving bids Oct. 6. Noted Aug. 31.

Conn., New London—Dredging—U. S. Engr. Office, New London, receiving bids Oct. 13 for dredging at New Haven, Norwalk and Stamford, Conn. (See adv.)

N. Y., Tompkinsville—Riprap—Lighthouse Inspector, Tompkinsville, receiving bids Oct. 19, Pamrapo Light Station, Newark Bay. (See adv.)

Penn., Philadelphia—Towers—Bureau of Yards and Docks, Navy Dept., Washington, receiving bids Oct. 28 for two 300-ft. steel towers. F. R. Harris, Ch.

W. Va., Wheeling—Lock Gates—U. S. Engr. Office, Wheeling, receiving bids Oct. 21, Dam No. 24, Ohio River. Noted Sept. 7. (See adv.)

La., New Orleans—Piles—Lighthouse Inspector receiving bids Oct. 12 for 250 creosoted square sawed piles. (See adv.)

Tenn., Covington—Drain—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., receiving bids Oct. 12 for tile drain, etc., in U. S. public building.

Ill., Quincy—Levee Work—Mississippi River Comn., 1311 International Life Bldg., St. Louis, Mo., receiving bids Oct. 30 about 40,000 cu.yd. earthworth, East Side Levee and Sanitary Dist. Noted Sept. 21. (See adv.)

Colo., Denver—Excavators—U. S. Rec. Ser., Denver, receiving bids Oct. 16. A. P. Davis, Ch. Engr. (See adv.)

Wash., Seattle—Dredging—U. S. Engr. Office, Seattle, receiving bids Oct. 23, Lake Washington Ship Canal.

Panama—Miscellaneous Supplies—E. I. Brown, Gen. Pur. Officer, Panama Canal, Washington, D. C., receiving bids Oct. 19.

Panama—Proposals for Equipment for Hydro-electric Station—Maj. E. I. Brown, Gen. Pur. Officer, Panama Canal, Washington, D. C., receiving bids Oct. 30 for equipment for hydro-electric station, including penstocks, water-turbine-driven exciter, power transformers, induction-motor-driven pumps and traveling crane. (See adv. Sept. 28 issue.)

Hawaii—Pearl Harbor—Crane—F. R. Harris, Ch. Bureau of Yards and Docks, Navy Dept., Washington, receiving bids Nov. 11 for locomotive jib crane of 50 tons for Naval Station.

Bids In and Contracts Awarded

Conn., New London—Dredging—J. S. Packard Dredging Co., Turks Head Bldg. Providence at 7.7c., low bidder 480,000 yd. dredging Duck Island Harbor. Noted Sept. 21.

Fla., Miami—Dredging—Romers Southern Dredging Co., Galveston, at $137,203, low bidder dredging channel connecting Miami city with deep water.

La., Natchitoches—Tank—Treasury Dept. let contract septic tank, etc., at U. S. post office to NOLAND-CLIFFORD CO., Newport News. Noted Aug. 31.

La., New Orleans—Rock—Bids received Sept. 20 for 52,000 tons rock from L. F. Alexander, Audubon Bldg., 17,000 tons delivered at Vicksburg, 90c. ton on cars at quarries, 50c. ton loading on barges; Big Rock Stone and Construction Co., 111 Center St., Little Rock, 35,000 tons delivered at Vidalia, $1.88; Z. Ward, Altus, 17,000 tons delivered at Vidalia, $1.93. Noted Aug. 31.

Ky., Louisville—Gate Valves—Bids received Sept. 23, Lock No. 41, Ohio River, from Independent Bridge Co., 829 Beaver Ave., Pittsburgh, North Side, $27,527; American Car and Foundry Co., Jeffersonville, Ind., $37,480; J. & J. B. Milholland Co., 714 5th Ave., Pittsburgh, $30,246. Noted Sept. 7.

Tenn., Memphis—Levee Work—Mississippi River Comn. let contracts about 2,655,000 cu.yd. levee work to R. L. LEONARD, Memphis, $190,637; ROACH, STANSELL, LAURENCE BROS. & CO., Memphis, $57,600; Rodgers Bros., Memphis, $74,000. Noted Aug. 31.

Mont., St. Ignatius—Canal Work—Low bidder canals and structures on Flathead Project was Pearson Construction Co., Seattle, Wash., Schedule 1, $3,765, Schedule 2, $4,242, Schedule 3, $20,867, Schedule 4, $9,261. Noted Aug. 24.

Colo., Montrose—Canal Work—Bids received Sept. 15 for Ironstone Canal Extension, California Mesa Lateral No. 3, Buttermilk Lateral, Uncompahgre Valley Project, from Osman Construction Co., Montrose, Schedules Nos. 1, 2, 4, 9, 10 and 11, $11,005; Holliday & Elledge, Montrose, Schedules 7, 8 and 12, $8,365. Noted Aug. 24.

Wash., Puget—Power Plant—Low bidders power plant at Naval Torpedo Station, Puget Sound, were Booker, Kiehl & Whipple, Seattle, $46,447; Appling-Griggs Co., Tacoma, $49,670; A. P. Bassett Plumbing and Heating Co. Everett, $46,679. Noted Aug. 24.

Federal Government Work (Continued)

Ore., Portland—Wharf—Lighthouse Inspector let contract repairing wharf at Semiameo Harbor Light Station to AMERICAN PILE DRIVING CO., Everett, Wash., $5,600.

CANALS, DITCHES & IRRIGATION

Proposed Work

N. Y., New York—(Brooklyn)—(Official)—Dredging—L. H. Pounds, Borough Pres., receiving bids Oct. 11 for dredging Newtown Creek Canal.

N. C., Beaufort—Drainage—Virginia-Carolina Farms Co. plans to drain 40,000 acres open land on Beaufort Peninsula. S. Spear & Co., 10 South La Salle St., Chicago, interested.

Fla., Titusville—Drainage—Plans approved for draining 265,000 acres in Upper St. Johns Dist. in Brevard, Osceola and Orange Counties. About $3,000,000. Noted June 1.

Miss., Ripley—(Official)—Drainage—Big Hatchie Drainage Dist., Tippah County, organized and plans being made for 10-mi. open ditch. Caldwell Engineering Co., Jacksonville, Ill., Engr.

Ind., Auburn — Ditch — Bd. Comrs. De Kalb County receiving bids Oct. 23 for Lemuel Nelson et al. Drain. J. Gunsenhouser, Supt. Constr.

Ind., Ft. Wayne—Ditch—Allen County receiving bids Oct. 7 for Schlemmer Ditch. About $6,051. R. W. Guenther, Supt. Constr. Noted Sept. 14.

Ind., Kokomo—Ditch—Howard County receiving bids Oct. 7 for E. J. Troyer et al Ditch. E. Hunt, Comr. of Drainage.

Ill., Tuscola—Drainage—Okaw River Drainage Dists. of Garrett and Bourbon Townships plan drainage system. About $100,000.

Ill., Vermilion—Ditch—Edgar County receiving bids Oct. 10 for cleaning, deepening and enlarging ditch, 71,460 cu.yd. C. F. Helman, Paxton, Engr. A. H. Chambers, Vermilion, County Audr.

Ill., Woodstock—Drainage—Coon Creek Drainage Comrs. made plans for draining 6,000 acres. About $78,000. A. L. Webster, Wheaton, Engr.

Iowa, Muscatine — Settling Basin — Muscatine and Louisa Counties plan settling Basin at foot of Michael Creek in Drainage Dist. No. 13.

Iowa, Rockwell City—Drainage—Surveys made for Big Cedar Drain Project, 206,000 acres, in Sac, Calhoun, Pocahontas and Buena Vista Counties. S. F. Moeller, Rockwell City, Consult. Engr. Noted May 4.

Iowa, Sioux City—Ditch—County receiving bids Oct. 9 for Smithland Drainage Dist. E. E. Hosmer, Sioux City, County Audr.

Iowa, Sioux City—Ditch—County receiving bids Oct. 9 for Boyer Drainage Dist. E. E. Hosmer, Sioux City, County Audr. Noted May 4.

Minn., Benson—Ditch—Swift County receiving bids Oct. 11 for County Ditches Nos. 25 and 27. S. B. Gardner, Benson, Engr.

Minn., Benson—Ditches—Swift County receiving bids Oct. 12 for County Ditches Nos. 29 and 33. S. B. Gardiner, Benson, Engr.

Minn., Crookston—Ditch—Polk County receiving bids Oct. 18 for County Ditch No. 103, 45,108 cu.yd. excavation. About $5,648. H. J. Welte, Crookston, County Audr.

Minn., Crookston—Ditch—Polk County receiving bids Oct. 18 for Ditch No. 104. About $4,105. H. J. Welte, Crookston, County Audr.

Minn., Fairmont—Ditch—Martin County receiving bids Oct. 10 for Judicial Ditch No. 60. About $50,232. N. C. Nolte, Fairmont, County Audr.

Minn., Fairmont—Ditch—Martin County receiving bids Oct. 10 for Judicial Ditch No. 71. About $9,198. N. C. Nolte, Fairmont, County Audr.

Minn., Moorhead — (Official) — Ditch — Clay County receiving bids Oct. 13 for Ditch No. 2, about $6,106. A. O. Houglum, Moorhead, County Audr.

Minn., Moorhead — (Official) — Ditches — Clay County receiving bids Oct. 13 for Ditches Nos. 26, 27 and 38. About $25,000. A. O. Houglum, Moorhead, County Audr. Noted Sept. 7.

Minn., Morris—Ditch—Stevens County receiving bids Oct. 11 for Ditch No. 25. About $10,171. C. R. Wollthan, Morris, County Audr. Noted Sept. 21.

Minn., Morris—Ditch—Stevens County receiving bids Oct. 11 for Ditch No. 27. About $4,403. C. R. Wollthan, Morris, County Audr.

Minn., Morris—Ditch—Stevens County receiving bids Oct. 12 for Ditch No. 29. About $9,635. C. R. Wollthan, Morris, County Audr.

Minn., Morris—Ditch—Stevens County receiving bids Oct. 12 for Ditch No. 33. About $8,492. C. R. Wollthan, Morris, County Audr.

Minn., Oliva—Ditch—Renville County receiving bids Oct. 16 for County Ditch No. 14. J. L. Johnson, Olivia, County Audr.

Minn., Olivia—Ditch—Renville County receiving bids Oct. 16 for Ditch No. 70. About $26,436. J. L. Johnson, Olivia, County Audr.

Minn., Olivia—Ditch—Renville County receiving bids Oct. 17 for County Ditch No. 63. J. L. Johnson, Olivia, County Audr. Noted Aug. 3.

S. D., Madison—Ditches—Lake County soon receives bids for Ditches Nos. 1 and 2. About $20,000. M. D. McGillivray, Madison, County Audr. Noted July 27.

Mo., Kahoka—Drainage—E. T. Perkins Engineering Co. made plans for Gregory Drainage Dist. in Clark and Lewis Counties. About $150,000 bonds sold. A. J. Ruddick, Pres. Bd. Comrs.

Mo., Orrick—(Official)—Drainage—City defeated $8,500 bonds for draining 80 acres. E. B. Murray & Co., Kansas City, Engr. Noted Sept. 21.

Tex., McKinney—Reclamation—Collins County Levee Improvement Dist. No. 1 making plans for reclaiming 4,000 acres in valley of Pilot Grove Creek. About $42,000. Noted Sept. 7.

Idaho, Emmett—Drainage—Bd. Comrs. Canyon County Drainage Dist. No. 1 receiving bids Nov. 2 for drainage canal. W. W. Nusbaum, Secy. Canyon County Drainage Dist. No. 1.

Calif., Modesto—Irrigation—Waterford Irrigation Dist. retained E. N. Bryan, Engr., to make plans for irrigation system. About $254,000.

Calif., Richmond — Reclamation — City made agreement with Bay Counties Land Co. by which $100,000 is available for dredging and reclamation work in inner harbor.

Calif., Sacramento — Reclamation — Netherland Reclamation Dist. plans pumping plant. P. M. Ashley, Engr.

Bids In and Contracts Awarded

Mass., Lynn—Dredging—Waterways and Pub. Lands Comn., Boston, received bids, Saugus River Channel, from Gilbert H. Harris, 262 Washington St., Boston, 49c. cu.yd.; Boston Dredging Co., 40 Central St., Boston, 50c. cu.yd.; Bay State Dredging and Contracting Co., 247 Atlantic Ave., Boston, 83c. cu.yd.

N. Y., New York—(Brooklyn)—Dredging—R. A. C. Smith, Comr. Docks, Pier A, North River, received bids Oct. 2, head of Mill Basin, Jamaica Bay, Contract No. 1462, 450,000 cu.yd., from P. Sanford Ross, Inc., 135 Bay St., Clifton, S. I., 11.3c. cu.yd.; Atlantic Gulf and Pacific Co., 11.47c.; W. H. Gahagan, 13c. Noted Sept. 28.

S. C., York—Drainage—Turkey Creek Drainage Dist. No. 1, York and Chester Counties, let contract 26 mi. ditches to L. O. WHITE, Statesville, $50,000. Noted Sept. 14.

Ga., Carnesville—Dredging—Broad River Drainage Dist. let contract, Broad River, to LONG & COOPER. About $95,000.

Ga., Toccoa—Dredging—Contract dredging Broad River let to THOMPSON & MOSELY, Greensboro, $81,400.

Tenn., Alamo—Drainage—Contract Second South Forked Deer Drainage Project let to STERNBERG BROS., St. Louis. Noted May 25.

Ind., Sullivan—Ditch—Contract main ditch and 7 laterals in Sullivan and Vigo Counties let to J. B. DORRIS, Sullivan, $24,145.

Mich., Saginaw — Drainage — Contract Lamb Creek Drain excavation, let to WOOLMAN CONSTRUCTION CO., Port Huron, $30,000.

Iowa, Carroll—Drainage—Carroll County let contract drainage ditch, 225,000 cu.yd. earth work, to CALLAHAN WALKER CONSTRUCTION CO., Omaha, Neb.

Iowa, Mason City—Ditch—Contract Drainage Ditch No. 45 let to J. BRASK, Clear Lake, $7,246.

Iowa, Nevada—Drainage—Contract Sherman Township Drain No. 76 let to BLAKEMORE & SCOTT, Nevada, $18,487.

Minn., Ada—Ditch—Norman and Polk Counties let contract Judicial Ditch No. 53 to SECURITY DREDGE CO., Minneapolis, $92,667.

Minn., Buffalo—Ditches—Contract 2 ditches, 100,000 cu.yd. earth work, let to AJAX DREDGE CO., Glencoe, $15,500. Noted Aug. 17.

Minn., Detroit—Ditch—Contract Ditch No. 16 let to J. C. MORIARTY, Sioux City, Iowa.

Minn., Northfield—Dredging—Carleton College let contract dredging Two Lakes to NORTHERN DREDGE AND DOCK CO., 300 Security Bldg., Minneapolis.

Minn., St. James—(Official)—Ditch—Watonwan County let contract Judicial Ditch No. 11 to P. PAULSEN, Carroll, Iowa. Noted Sept. 14.

Minn., Shakopee—Ditch—Scott County let contract to J. McKILLIP, Faribault, $15,000. Noted Aug. 24.

Idaho, Caldwell—Irrigation—Contract irrigation system for Caldwell Irrigation Dist. let to MORTON & LEIGHTY. About $6,700. Noted May 25.

MISCELLANEOUS

Proposed Work

Mass., Boston—(Mattapan)—Fire Station—City making plans. J. McGinniss, 16 Arlington St., Boston, Arch.

Mass., Boston—Park Improvements—Comr. Pub. Wks. receiving bids Oct. 9 for dredging, filling, sewerage, etc., for Strandway and Old Harbor improvements. E. F. Murphy, Comr. Pub. Wks. About $780,000. Noted Sept. 21.

Mass., Fall River—Dock—State Comn. on Waterway and Pub. Lands, Boston, appropriated $350,000 for docks.

Mass., Revere—Fire Station—City receiving bids Oct. 19, 2-story, 40x52-ft., Freeman St. About $15,000. MacNaughton & Robinson, 101 Tremont St., Boston, Arch. Noted Sept. 28.

N. Y., Little Falls—Elimination Grade Crossing—City plans. G. I. Oakley, City Engr.

N. Y., New York—(Brooklyn)—(Official)—Track Floors and Platforms—Pub. Ser. Com. receiving bids Oct. 19 for concrete track floors and platforms over the mezzanines of 11 stations on Culver Rapid Transit R.R., between 37th St. and 10th Ave. and intersection of Gravesend Ave. and Ave. X.

N. Y., New York—(Manhattan)—Grade Improvements—City plans to change grade at 34th St. and Park Ave.

N. Y., Rochester—(Official)—Subway—New York Central R.R. and Buffalo, Rochester & Pittsburgh Ry. receives bids in spring for subway at Brown St. About $300,000. G. W. Kittredge, Grand Central Terminal, New York, Ch. Engr., New York Central R.R. Noted Sept. 21.

N. J., Bayonne—Pier—Texas Oil Co. making plans, rein.-con.

N. J., Haddonfield—Dam—City making plans. About $5,000. Remington & Vosbury, 7th and Market St., Camden, Engr.

N. J., Spring Lake Beach—Improving Beach Front—Borough plans to improve beach front and build jetties and bulkhead. About $100,000.

N. J., Trenton—Wall—Bd. Mgrs. at New Jersey State Hospital receiving bids Oct. 13, concrete. S. Scammell, Secy.

Penn., Dallas—Swimming Pool—W. J. Newberry making plans, 1-story, rein.-con. Newberry & Foster, Miners Bank Bldg., Wilkes-Barre, Arch.

Penn., Pittsburgh—Retaining Wall—City plans, Mountford Ave. J. G. Armstrong, Mayor.

Penn., Pittsburgh — Speedway — Pittsburgh Speedway Association plans automobile and motorcycle speedway. About $1,000,000. J. B. Callahan, Pres.

Md., Sharpsburg—Fence—New York Monuments Com. soon receives bids for fence around New York State Reservation. L. R. Stegman, 116 Nassau St., New York, Chn.

Va., Norfolk—Pier—Chesapeake & Ohio Ry. plans, 52x595-ft., concrete, foot of Tazewell St. About $100,000. F. I. Cabell, Richmond, Ch. Engr. B. F. Mitchell, Seaboard Bank Bldg., Arch.

W. Va., Wheeling—Retaining Wall—City, West Virginia Traction and Electric Co. and Baltimore and Ohio Railroad Co., plans. C. B Cooke, City Engr., R. N. Beglen, Ch. Engr. Baltimore & Ohio Railroad Co.

Ga., Augusta—(Official)—Bulkhead and Gates—River and Canal Comrs. receiving bids Oct. 10, rein.-con., for water control across Buttler's Creek. N. Wingfield, 811 Ellis St., Ch. Engr. (See adv.)

Fla., Ormond—Wharf—City plans $35,000 bond issue. G. H. Rigby, Mayor.

Miss., Natchez—Breakwater—City plans, Mississippi River. O. W. Fowler, City Engr.

La., Harvey—Pipe Lines—Texas Oil Co. granted permission for 2 pipe lines.

Ohio, Cleveland—(Official)—Comfort Station—City receiving bids Oct. 14, St. Clair Ave. and East 105th St. R. Hoffman, City Engr. F. H. Betz, City Arch., 604 City Hall. Noted Sept. 28.

Ohio, Cleveland—Subway—City plans $10,000,000 bond issue for subway system beneath entire downtown section. R. Hoffman, City Engr.

Ohio, Gates Mills—Polo Field—W. C. White making plans. About $25,000. A. D. Taylor, 1900 Euclid Ave., Cleveland, Arch.

Ohio, Lakewood—Park Improvements—City votes Nov. 17 on $15,000 bonds. E. A. Fisher, City Engr.

Ohio, Middletown—Park Improvements—City votes Oct. 11 on $35,000 bonds. W. C. Morrison, City Engr. Noted July 6.

Ohio, Portsmouth—Earth Removal—Dir. Pub. Ser. receiving bids Oct. 6 for removal of 10,000 cu.yd. earth from slip known as Damarin Hill. J. E. Fritz, Clk.

Ohio, Proctorville—Grand Stand—City receiving bids Oct. 7, Fair Grounds. About $7,000.

Ohio, Youngstown—Dam—Park Com. made plans for dam in Crandall Park. F. M. Lillie, City Engr.

Ill., Blue Island—Swimming Pool—Blue Island Park Bd. plans. About $10,000.

Ill., Quincy—Pavilion—City plans, South Park. About $12,000. F. L. Hancock, City Engr.

Wis., Ashland—Ore Dock—Chicago & Northwestern Ry. submitted plans to Dock and Harbor Bd. for third ore dock. About $1,500,000. W. H. Finley, Jackson Blvd. and Franklin St., Chicago, Ch. Engr. Noted Mar. 23.

Wis., Fond du Lac—Park Improvements—City votes Nov. 7 on $50,000 bonds. J. S. McCullough, City Engr.

Wis., Milwaukee—Animal House—Bd. Park Comrs. making plans, 1-story, 48x192-ft., rein.-con., Washington Park. About $50,000. A. C. Clas, Colby-Abott Bldg., Arch.

Wis., Superior—Coal Docks—Berwind Fuel Co. plans additions. About $30,000.

Iowa, Des Moines—Dam—Plans being made to rebuild Center St. dam, spillway and floodgate.

Minn., St. Cloud—Power Flusher—City soon receives bids for 2-horse-drawn power flusher to be used in washing down streets that have been paved. C. H. West, City Engr.

Minn., St. Paul—Bathhouse—City plans, Lake Phalen. About $40,000.

Miscellaneous (Continued)

Kan., Wichita—Pipe Line—Western Pipe Line Co. plans pipe line from Augusta-Eldorado oil fields to Wichita.

Neb., Norfolk—(Official)—Park—City voted $15,000 bonds. H. H. Tracey, City Engr. Noted Sept. 21.

Mo., Excelsior Springs—Park Improvements—City plans $20,000 bond issue.

Mo., St. Louis—Comfort Station—City plans, Benton Park. E. R. Kinsey, Pres. Bd. Pub. Ser.

Mo., St. Louis—Park Building—Comr. Pub. Wks., Park Dept., receiving bids about Oct. 15, Forest Park. About $8,000. T. P. Barnett & Co., 705 Olive St., Arch.

Tex., Beaumont—Wharf—City voted $230,000 bonds for Unit No. 2 of wharf and 1,000 ft. of quay to take care of lumber cargoes. Noted Aug. 17.

Tex., Corpus Christi—Improving Water Front—City plans seawall, esplanade, etc. About $140,000. Fill about $100,000. R. Miller, Mayor, and H. A. Stevens, City Engr.

Tex., Denison—Swimming Pool—City plans, Forest Park. About $7,500. A. P. Clenny, City Clk.

Wash., Aberdeen—Natatorium—C. E. Troutman, Arch., receiving bids Nov. 1, 2-story, 100x130-ft. About $30,000.

Wash., Seattle—Bulkhead and Filling—Park Bd. making plans for bulkheading and filling area uncovered by lowering of Lake Washington. H. L. McGillis, Engr.

Ore., Portland—Natatorium and Bathhouse—City retained Root & Kerr, Arch., Henry Bldg., to make plans. About $25,000.

Ont., Chippawa—Dock—Norton Co. plans, concrete and timber.

Bids In and Contracts Awarded

Mass., Somerville—Platforms and Rest Room—Boston & Maine R.R. let contract to EDWARDS & MONAHAN CO., 6 Beacon St., Boston.

R. I., Phillipsdale—(Pawtucket post office)—Wharf and Dredging—Contract wharf south of Ten Mile River and dredging Pawtucket River let to C. S. BIRD, Walpole, Mass.

N. Y., New York—(Bronx)—(Official)—Pier—City let contract repairing pier at foot of Fordham Ave., City Island, to A. M. HAZELL, INC., 90 West St., Manhattan, $7,836. Noted Sept. 7.

N. Y., New York—(Bronx)—(Official)—Yard—Bids received Sept. 28 for 239th St. yard of Route 18 part of White Plains Rapid Transit R.R. from T. J. Buckley Construction Co., $372,893; T. Crimmins Contracting Co., $387,050; D. E. Conners, $407,650. Noted Sept. 14.

Md., Ft. McHenry—(Baltimore post office)—Monument—Francis Scott Key Monument Association let contract to C. H. NIEHAUS, New Rochelle, N. Y., $75,000. Noted June 15.

Miss., Belzoni—Levee—Contract 1¾ mi. levee, 21,000 cu.yd., let to T. M. HENNINGWAY, Jackson, 22c. per cu.yd.

La., New Orleans—Levee—State Bd. Engrs. let contract to D. B. HEARIN & SON, Baton Rouge, 16c. per cu.yd., for Stevenson to Jack Strange Levee, 80,000 cu.yd. in Parish St. John the Baptist.

La., New Orleans—Levee—State Bd. Engrs. let contract to LOWER COAST CONSTRUCTION CO., Pointe a la Hache, for Tarras Levee, 65,000 cu.yd., Parish Pointe Coupee, 19.8c. cu.yd., Cosse to Martin Levee, 40,000 cu.yd., Parish of Plaquemine, 19.4c. cu.yd.

Ky., Hickman—Levee—Fulton County Levee Bd. let contract repairing Mile No. 4 of Reelfoot Levee let to ROACH, STANSELL, LAWRENCE BROS. & CO., Memphis, Tenn. About $35,000. Noted June 8.

Ohio, Bergholz—Concrete Wall—County Comrs. let contract to E. STEITZ, Richmond. Noted Sept. 7.

Ohio, Logan—Mausoleum—Ohio Mausoleum Co., Galion, let contract, 1-story, 34x70-ft., to F. J. HERMAN, 824 East Bancroft St., Toledo. About $23,000.

Mich., Hancock—Bathhouse—Quincy Mining Co. let contract, 3-story, to A. VERVILLE, Hancock.

Ill., Chicago—Ice Skating Rink—Springer Wood Co. let contract to DARLING & EITEL CO., 205 West Randolph St. About $231,000. Noted Sept. 7.

Ill., Evanston—(Official)—Seawall—Comr. Pub. Wks. let contract, along shore Lake Michigan, to GREAT LAKES DREDGE AND DOCK CO., Chicago. Noted Sept. 21.

Kan., Halstead—Dam—City let contract, Riverside Park, to J. T. HARVEY, Wichita, $5,503. Noted Aug. 10.

Neb., Lincoln—Tunnel—State Hospital for Insane let contract to G. E. TOBIN. About $5,000. Noted Sept. 21.

Calif., Lodi—Bathhouse—City let contract to PHILBRICK & COLVIN.

Calif., Saticoy—Protection Work—R. M. Davis, Saticoy, $7,415, only bidder for Sect. B, portion of protection work in Saticoy Protection Dist.

B. C., Vancouver—Seawall and Coal Harbor Causeway—Contract let to COTTON CO., Ltd., Vancouver, $40,983.

BUILDINGS

Proposed Work

Other items relative to Building Construction will be found under the following headings: "Industrial Works;" "Federal Government Work" and "Miscellaneous."

Maine, Augusta—Hospital—Augusta State Hospital receives bids Oct. 18 for addition. About $40,000. W. G. Bunker, 17 Augusta Trust Bldg., Arch.

N. H., Nashua—Amoskeag Realty Co. plans 3-story, 70x153-ft. building on Main St.

Mass., Boston—Union Rescue Mission making plans for 4-story building at 1-2 Dover St. P. S. Avery, 120 Tremont St., Arch.

Mass., Bridgewater—School—City making plans. About $50,000. R. D. Kimball Co., 6 Beacon St., Boston, Engr.

Mass., Canton Hotel—Plymouth Rubber Co. plans 3-story, 70x100-ft., on Washington St.

Mass., Southbridge—School—City making plans, 2-story, 57x95-ft. Peabody & Stearns, 53 State St., Boston, Arch. Noted July 20.

R. I., Narragansett Pier—Hospital—J. H. Hanan, New York, plans 3-story, brick. About $50,000.

R. I., Providence—Hospital—Homeopathic Hospital of Rhode Island plans. F. S. Waite, City Hall, Pres.

R. I., Providence—College—Dominican Order making plans. About $2,000,000.

Conn., Waterbury—Office—Chase Rolling Mill Co. and Chase Metal Works plans, Grand and Leavenworth St.

N. Y., Amsterdam—School—City voted $85,000 bonds. Noted Apr. 13.

N. Y., Batavia—High School—City voted $200,000 bonds.

N. Y., Buffalo—School—Bd. Education plans School No. 31 on Emslie St., about $400,000.

N. Y., Cohoes—High School—City voted $200,000 bonds. Noted Aug. 24.

N. Y., Freeport—Theater and Store—Frank Tinney, Long Beach Ave., making plans, Merrick Rd. and Grove St. About $75,000. H. C. Crane, 2325 Dime Bank Bldg., Detroit, Mich., Arch.

N. Y., New York—(Manhattan)—(Official)—School—Supt. School Bldgs. at office Dept. Education, Park Ave. and 59th St., receiving bids Oct. 9. C. B. J. Snyder, Supt. School Bldgs.

N. Y., Pawling—School—Bd. Education plans, 2-story, 59x80-ft. About $55,000. A. L. Hopkins, 101 Park Ave., New York, Arch.

N. Y., Potsdam—School—State Normal and Training School receives bids Oct. 31, 3-story, 170x280-ft. About $300,000. L. F. Pilcher, Capital, Albany, Arch.

N. Y., Rochester—Church—Lake Avenue Baptist Church making plans, 2-story. About $110,000. Fotte, Headly & Carpenter, Carter Bldg., Arch.

N. Y., Syracuse—Y. M. C. A. making plans for 4-story building. About $150,000. Taylor & Bonta, 615 Gurney Bldg., Arch.

N. J., Asbury Park—Bank—Seacoast Trust Co. plans, Bon St. and Mattison Ave. About $100,000 is now available. J. M. Ralston, Pres.

N. J., Dover—High School—Bd. Education rejected bids. Plans being revised and new bids will be received. About $100,000. Noted Aug. 31.

N. J., Newark—McKim, Mead & White, Arch., 101 Park Row, New York, made plans for memorial building at Broad, Orchard, Camp and Washington St. About $1,000,000.

N. J., Red Bank—Y. M. C. A. plans building. About $50,000. S. K. Lipscomb, Secy. Y. M. C. A. of New Brunswick, interested.

Penn., Conshohocken—Club House—Penn Club made plans, 3-story, 30x75-ft., 2d Ave. and Fayette St. H. Reinhold, Jr., 1309 Walnut St., Philadelphia, Arch.

Penn., Harrisburg—Hotel—Chamber of Commerce Hotel Com. plans, 3rd and Walnut St. About $1,000,000. E. L. McColgin, Kunkel Bldg., interested.

Penn., Johnstown—Hospital—Mercy Hospital receiving bids Oct. 15, 4-story, 80x100-ft. addition. About $50,000. H. Hornbostel, William St., New York, Arch. Noted Aug. 17.

Penn., Munhall—High School—Bd. Education receiving bids Oct. 16, 2-story, 50x80-ft. addition. About $75,000. W. G. Eckles, Lawrence Savings and Trust Bldg., New Castle, Arch. Noted Mar. 2.

Penn., Overbrook—Seminary—St. Charles Borromeo Seminary making plans, 3-story addition. About $50,000. P. Monaghan, Drexel Bldg., Philadelphia, Arch.

Penn., Pittsburgh—School—Bd. Education soon lets contract, West End Sheraden High School. About $265,000. McClure & Spahr, 320 4th Ave., Arch. Noted Sept. 28.

Penn., Uniontown—High School—Bd. Education making plans, 3-story. About $60,000. H. W. Altman, 525 First National Bank Bldg., Arch.

D. C., Washington—Smithsonian Institution soon receives bids for 1-story, 280x1,700-ft. art gallery institute. About $1,000,000. C. A. Platt, 11 East 24th St., New York, Arch.

Va., Staunton—Sunday School and Church—First Presbyterian Church making plans, 3-story 70x100-ft., addition. About $50,000. A. Kelsey, Perry Bldg., Philadelphia, Arch.

Va., Suffolk—Club House—Laurel Cliff Country Club plans, 2-story. J. H. Corbitt, Pres.

Va., Suffolk—Armory—City plans, 1-story. About $40,000. R. H. Brinkley, City Engr.

S. C., Gaffney—Hotel—P. C. Poole, G. G. Byers, R. E. Grabel and others interested. About $50,000.

Ga., Griffin—School—City voted $65,000 bonds.

Miss., Gulfport—Mississippi Centennial Exposition receiving bids Oct. 10 for buildings.

Tenn., Memphis—Goodwyn Institute making plans for addition. About $100,000. J. Gaisford, Arch.

Ohio, Akron—Schools—City soon votes on $500,000 bonds for 5 schools.

Ohio, Cleveland—School—City votes Nov. 7 on $75,000 bonds for addition to Corlett School. W. R. McCormack, Arch. F. G. Hogen, East 6th St. and Rockwell Ave., Dir. Pur. Schools.

Ohio, Cleveland—School—City votes Nov. 7 on $75,000 bonds for addition to Moulton School. W. R. McCormack, Arch. F. G. Hogen, East 6th St. and Rockwell Ave., Dir. of Schools.

Ohio, Cleveland—School—City votes Nov. 7 on $100,000 bonds for addition to Woodland School. F. G. Hogan, Dir. Pub. Schools, East 6th St. and Rockwell Ave.

Ohio, Columbus—Dormitory—Franklin County Children's Home making plans. W. H. Tremaine, Arch.

Ohio, Cuyahoga Falls—Gymnasium and Swimming Pool—Methodist Church plans. About $75,000.

Ohio, Dayton—Dayton Aerie of Eagles plans addition to building on South Main St. About $50,000.

Ohio, East Palestine—Hotel and Club House—W. C. Owen & Co., Arch., 408 Euclid Bldg., Cleveland, making plans, 4-story. About $75,000.

Ohio, Elyria—Depot—New York Central R.R. plans, East Ave. and Tremont Ave.

Ohio, Kenmore—High School—Bd. Education receives bids Oct. 23, 2-story. About $75,000. I. W. Fiscus, Clk. Noted June 29.

Ohio, Norwood—School—City retained Bausmith & Drainie, Arch., 901 Gerke Bldg., Cincinnati, to make plans. About $150,000 bonds voted. Noted Aug. 31.

Ohio, Pleasant City—High and Grade School—Bd. Education receiving bids Oct. 11, 2-story, 65x110-ft. A. McFadyen, Pres. Noted Sept. 21.

Ohio, Portsmouth—(Official)—School—Bd. Education receiving bids Oct. 27. About $60,000. Ritter & Bates, Arch. Noted Sept. 21.

Ohio, Rocky River—Motion Picture Studio—Midland Film Co. making plans. About $200,000. W. C. Owen & Co., 408 Euclid Bldg., Cleveland, Arch.

Ohio, Wellsville—High and Grade School—Bd. Education receiving bids Nov. 1, 2-story, 60x125-ft. About $100,000. Howard & Merriam, 8 East Broad St., Columbus, Arch. Noted June 8.

Ohio, West Park—Grade Schools—Bd. Education receiving bids Oct. 9, 2-story, 40x84-ft. About $50,000. Barter, Coghlan & Saunders, 311 Electric Bldg., Cleveland, Arch. Noted May 25.

Ohio, Wilmington—Theater—C. L. Murphy, 6157 Sheridan Bd., Chicago, receives bids Oct. 13, 2-story, 56x174-ft. About $60,000. Dittoe, Fahnestock & Ferber, 103 Carew Bldg., Cincinnati, Arch.

Ind., Ft. Wayne—Church—Bethany Presbyterian Church making plans, 1-story, 60x110-ft. About $60,000. H. E. Flichinger, 1010 Calhoun St., Arch.

Ind., Garrett—Hospital—Sacred Heart Hospital plans addition. About $50,000.

Ind., Huntington—Order of Moose plans building. About $75,000.

Ind., South Bend—Chemistry Hall—Notre Dame University plans to rebuild.

Ind., Terre Haute—School—Bd. Trustees Indiana State Normal School receives bids Oct. 7, 3-story, concrete and brick. J. Jump, Secy. Noted Aug. 24.

Mich., Battle Creek—School—Bd. Education making plans, 2-story. About $60,000. J. D. Chubb, 109 North Dearborn St., Chicago, Arch.

Mich., Bay City—Hospital—Mercy Hospital, 15th and Howard St., made plans for 4-story addition. About $100,000. Pratt, Bickel & Campbell, Bay City, Arch. Noted Sept. 21.

Mich., Lansing—High School—Bd. Education making plans, 2-story. About $80,000. J. N. Churchill, Oakland Bldg., Arch. Noted Aug. 10.

Mich., Midland—Donor Dow Chemical Co. making plans for 2-story community building. About $50,000. Cowles & Mutscheller, 114 Washington St., Saginaw, Arch.

Mich., Ypsilanti—Hospital—City receiving bids Oct. 12. S. Samon, City Clk. E. R. Dunlap, Detroit, Arch.

Ill., Chicago—Hall, School and Church—St. Justine Martyr Church plans. About $40,000. J. McCarthy, 139 North Clark St., Arch.

Ill., Chicago—School and Church—E. Brielmaier & Sons Co., Arch., Association Bldg., making plans, 2-story. About $60,000.

Buildings (Continued)

Ill., Chicago—Terminal—Illinois Central R.R. plans. About $20,000,000. A. S. Baldwin, Ch. Engr.

Ill., Chicago—Theater, Store and Office Building—R. J. Schaefer receiving bids about Oct. 15, 3-story, 125x208-ft. About $200,000. H. L. Newhouse, 4630 Prairie Ave., Arch.

Ill., Chicago—Lodge and Store—Flynn Bros. soon receives bids, 3-story, 68x80-ft. About $65,000. Worthmann & Steinbach, 155 North Clark St., Arch.

Ill., Granville—High School—Bd. Education receiving bids Oct. 10, 3-story, 75x117-ft. About $40,000. E. A. Payne, Carthage, Arch. Noted Sept. 7.

Ill., Oak Park—Sunday School and Church—First Congregational Congregation making plans, 2-story. About $125,000. Holmes & Flynn, 8 South Dearborn St., Chicago, Arch.

Ill., Williamsville—High School—Bd. Education making plans, 2-story, 75x114-ft. About $50,000. J. A. Scribbons, Powers Bldg., Decatur, Arch.

Wis., Kenosha—Hotel—Matt Kirar making plans, 3-story, 40x120-ft. Wolf & Ewens, 437 East Water St., Milwaukee, Arch.

Wis., Kenosha—Club House—B. P. O. E. No. 750 receives bids Oct. 15, 3-story. About $100,000. R. A. Messmer & Bro., Majestic Bldg., Milwaukee, Arch. Noted July 27.

Wis., Oshkosh—School—State Normal School receiving bids Oct. 10, 3-story, 135x143-ft., brick and rein.-con. addition. W. Kiddle, Secy. State Normal School, Madison.

Wis., Waukesha—Schools—City voted $250,000 bonds.

Iowa, Cedar Rapids—Dormitory and Dining Hall—Coe College making plans, 4-story, 63x181-ft. About $90,000. E. L. Tilton, 32 Broadway, New York.

Iowa, Des Moines—Hospital—Dubuque County soon votes on $75,000 bonds.

Iowa, Havelock—School—Consolidated School Dist. making plans, 2-story, 62x152-ft. About $55,000. Martin & Hoskins, Storm Lake, Arch.

Iowa, Iowa City—High School—Bd. Education making plans, 2-story. About $60,000. G. L. Lockhart, 285 Endicott Bldg., St. Paul, Arch. Noted June 22.

Iowa, Mallard — School — Consolidated School Dist. plans, 2-story, 70x112-ft. About $45,000. Martin & Hoskins, Storm Lake, Arch.

Iowa, Miller—Courthouse—Hand County votes in November on $100,000 bonds.

Iowa, Sioux City—Temple and Office—Masonic Building Corporation making plans, 1-story, 100x150-ft. About $300,000. Beuttler & Arnold, 609 Security Bldg., Arch.

Iowa, Valley Junction—High School—Bd. Education Independent School Dist. receiving bids Oct. 24. About $45,000. Proudfoot, Bird Rawson, 810 Hubbell Bldg., Des Moines, Arch Noted June 29.

Minn., Canby—School—City receiving bids Oct. 18. G. L. Lockhart, 285 Endicott Bldg., St. Paul, Arch. Noted May 25.

Minn., Duluth—Club House—Knights of Columbus plans. About $75,000. J. Brown, Trustee.

Minn., St. Cloud—City Hall—City receiving bids Nov. 12. About $60,000. G. G. Mugnuson, City Clk.

Minn., St. Paul—Theater—Silas Jacobson, Arch., Capital Bank Bldg., making plans, 1-story, 61x135-ft. About $40,000.

Minn., Wacomia—High School—Bd. Education receiving bids Oct. 20, 2-story. About $45,000. K. T. Snyder, Plymouth Bldg., Minneapolis, Arch.

Kan., Anthony — High School — City making plans. About $45,000. Markgraf & Mampe, 413 New Ridge Bldg., Kansas City, Mo., Arch. Noted July 20.

Kan., Council Grove—High School—Bd. Education making plans. About $41,000. J. H. Felt & Co., Grand Ave. Temple, Kansas City, Mo., Arch.

Kan., Ellsworth—State plans old ladies' home. About $50,000. C. H. Chandler, Topeka, State Arch.

Kan., Leavenworth—City Hall and Auditorium—City defeated $150,000 bond issue. Noted Aug. 10.

Kan., Russell—School—City voted $40,000 bonds.

Kan., Wichita—Jail—County Comrs. making plans. About $100,000. H. M. Barrett, County Clk. Noted Sept. 7.

Neb., Grand Island—Passenger Station—Union Pacific R.R. made plans. About $100,000. C. Ware, Omaha, Gen. Mgr.

Neb., Havelock—High School—City votes in November on bonds. W. F. Gernandt, 437 Keeline Bldg., Omaha, Engr. F. B. Young, Secy. Noted Aug. 10.

Neb., Omaha—Club House—Omaha Athletic Club making plans, 8-story. About $400,000. J. Latenser & Sons, 626 Bee Bldg., Arch. Noted Mar. 16.

Neb., Omaha—High School—Bd. Education making plans, 2-story. About $100,000. J. Latenser & Sons, 6263 Lee Bldg., Arch.

S. D., Clear Lake—Courthouse—Deuel County receives bids Oct. 16. J. M. Wols, Clear Lake, County Audr. Buechner & Orth, 500 Shebert Bldg., St. Paul, Arch. Noted Sept. 14.

Mo., Boonville—Dormitory and Dining Hall—Kamper Military Academy making plans, 3-story, 130x130-ft. About $100,000. T. W. Best, Sedalia, Arch.

Mo., Independence—Gymnasium and Vocational Building—Jackson County making plans, 3-story, 75x150-ft. White & Dean, 311 Bellefontaine, Kansas City, Arch.

Mo., St. Louis—Clinic—City receives bids about Oct. 12 for 4-story, 54x112-ft., about $125,000. P. J. Markman, City Arch. E. R. Kinsey, Pres. Bd. Pub. Ser.

Mo., St. Louis—School—Bd. Education made plans for Alexander Hamilton School. About $246,000.

Tex., Abilene—Hospital—R. S. Glenn, Campbell Bldg., making plans.

Tex., Brownwood—High School—City making plans.

Tex., Ft. Worth—Dormitory—Texas Women's College making plans.

Tex., Refugio—Courthouse—County Comrs. plan. About $75,000.

Tex., Waco—Central Texas Baptist Sanitarium plans building. About $100,000. J. F. Rowe, Secy.

Okla., Durant—Courthouse and Jail—Bryan County votes Nov. 7 on $100,000 bonds.

Okla., Tulsa—Office—Sinclair Oil and Gas Co. making plans, 8-story. C. H. Birdsall, 1002 Commerce Bldg., Kansas City, Mo., Arch. Noted June 29.

Okla., Woodward—City Hall—City defeated $50,000 bond issue, 2-story, 88x160-ft. H. H. Alexander, City Clk. Noted May 18.

Colo., Denver—Temple—Labor Temple Association plans. About $100,000.

Utah, Salt Lake City—School—R. C. Church, care of Bishop Glass, making plans. About $100,000. J. F. Comes and J. E. Kauzor, Renshaw Bldg., Pittsburgh, Archs.

Ore., Astoria—High School—School Bd. soon lets contract, 2-story. About $80,000. Whitehouse & Foulihoux, Wilcox Bldg., Portland, Arch. Noted Aug. 31.

Ore., Bend—Hotel—Phillip Brooks, Vancouver, B. C., and F. W. Sullivan, Bend, soon lets contract, 3-story Pilot Butte Hotel. About $80,000. Noted Sept. 21.

Calif., San Francisco—Chamber of Commerce plans 3-story building. About $150,000.

Bids In and Contracts Awarded

Mass., Milton—School—City let contract 3-story, to McCAHEY & O'CONNOR, 218 Main St., Cambridge. About $175,000. Noted Sept. 21.

Conn., New Haven—Little Sisters of Poor, 238 Winthrop Ave., let contract "Home for Aged" to D. G. CARMICHAEL, 902 Chapel St., about $100,000.

N. Y., Buffalo—Hospital—Buffalo General Hospital let contract to J. W. COWPER CO., Fidelity Bldg., about $150,000.

N. Y., Dunkirk—School—Bd. Education rejected bids received Sept. 15, 1-story, 200x250-ft. About $90,000. Noted Sept. 7.

N. Y., Ilion—Parish House and Church—St. Augustine's Episcopal Congregation let contract to E. BEDFORD, 48 John St., Ilion. About $60,000. Noted June 29.

N. Y., Lackawanna—School—Bd. Education let contract to NIEDERPREUM BUILDING CO., 1179 Jefferson St., Buffalo. About $180,000.

N. Y., New York — (Manhattan) — Loft — C. Meyer, 30 East 42d St., let contract, 12-story, to I. BOOK, 220 West 42d St. Noted Mar. 23.

N. J., Garfield—High School—Bd. Education let contract, 2-story, to P. F. CAVISTON, Carbondale, Penn. About $90,000. Noted Sept. 14.

N. J., Jersey City—Schools—City received lowest bid for high school and School No. 3 from A. Winternetz, 237 East 72nd St., New York, $273,000 and $77,000 respectively.

N. J., Newton—High School—City let contract to C. E. PRESTON, White Plains, N. Y., $50,459. Noted Sept. 7.

N. J., Plainfield—City Hall—City let contract to P. F. KENNY, 33 Old Broadway, New York, $107,999. Noted Sept. 21.

Penn., Pottstown—St. James Evangelical Lutherian Church let contract building at High and Price St. to W. H. WIAND, Pottstown. About $50,000.

D. C., Washington—Hotel and Office—Contract, 11-story, 35x180-ft. Hotel Arlington and office building to G. A. FULLER CO., Munsey Bldg. About $3,000,000.

Ky., Louisville—School—Baptist Women's Mission Union Training School let contract, 4-story, to SELDEN-BRECK CONSTRUCTION CO., 1108 Fullerton Bldg., St. Louis, Mo. About $150,000.

Ohio, Gallipolis—High School—Bd. Education let contract, 2-story, 66x130-ft., to CULLEN & VAUGHN, 8 East Broad St., Columbus, $80,000. Noted July 20.

Ohio, Lakewood — (Official) — Cleveland Telephone Co. let contract 3-story addition to building to W. B. McALLISTER. About $55,000. Noted Sept. 21.

Ohio, Wilberforce — Gymnasium — Wilberforce University let contract to CULLEN & BAUGHN CO., Hamilton. About $40,000. Noted Sept. 7.

Ind., Terre Haute—Church—Centenary Methodist Congregation let contract to AINSWORTH CONSTRUCTION CO., Terre Haute. About $80,000. Noted Aug. 10.

Mich., Royal Oak—Church—M. E. Church let contract, to E. M. CRAMER, Logansport, Ind. About $70,000. Noted July 6.

Mich., Wahjamega—Michigan Farm Colony for Epileptics let contract building to SPENCER BROS., Brewer Bldg., Saginaw. About $47,000.

Wis., Wauwatosa—Dining Hall—City let contract masonry to A. G. TADDEY, 744 46th St. About $50,000.

Iowa, Jesup—High and Grade School—Jesup Consolidated School Dist. let contract to LOGAN BROS., Clinton, $65,800. Noted Sept. 7.

Minn., Mound—High School—School Dist. No. 85 let contract, 3-story, 74x122-ft., to A. WURTZ, 3434 South 20th Ave., Minneapolis. About $60,000. Noted Aug. 24.

Mo., Springfield—Y. M. C. A. let contract 2-story, 50x150-ft. building to PAULY & IPSEN. About $50,000. Noted July 13.

Ark., Hot Springs—Hotel—Contract Como Hotel Annex, 5-story, rein.-con., let to J. D. JOHNSON, 420 Johnson St., Little Rock.

Ark., Little Rock—Music Studios—F. B. Hollenberg let contract to STEWART & McGHEE CONSTRUCTION CO. About $60,000.

Idaho, Osburn—Hospital—County let contract to A. J. TURNER, Wallace, $58,456.

Wash., Seattle—High School—School Bd. let contract West Seattle High School to JENKINS & JONES, Hinckley Bldg., $196,600.

Calif., Santa Barbara—Library—Contract 2-story, 130x160-ft. brick Carnegie Library let to KIER CONSTRUCTION CO., American National Bank Bldg., San Diego, $59,938. Noted Sept. 7.

REPAVING, NEWARK, N. J.

Bids received by city Sept. 7 for repaving Roseville Ave. from (A) J. S. Geiger Sons, Newark; (B) Glenfield Construction Co.; (C) Newark Paving Co.; O'Gara & Maguire, $48,781; R. Sangiovanni, $49,122. The item bids of the 3 lowest bidders were as follows:

	A	B	C
15,000 sq.yd. 4-in. wood block on old concrete	$2.34	$2.59	$2.66
400 cu.yd. on concrete	5.20	6.80	6.00
3,000 lin.ft. 16x5-in. curb, set in concrete	.78	.85	.87
3,000 lin.ft. old bluestone curb, reset in concrete	.35	.35	.35
500 lin.ft. old bluestone curb, reset at driveways	.35	.40	.35
200 lin.ft. 16x5-in. four cut corners, set in concrete 12 ft. radius	1.20	1.00	1.00
3,000 sq.ft. cement walk, 5 in. thick	.16	.20	.20
2 new basins with single inlet	100.00	110.00	110.00
4 new inlet basins	100.00	125.00	110.00
2 new basins using old granite heads retrimmed	100.00	90.00	90.00
2 new inlets to basins	25.00	40.00	25.00
1 old granite head reset	3.00	12.00	10.00
21 new iron manhole heads and covers as per plan	15.00	15.00	15.00
Extended totals	$42,643	$47,477	$48,450

TRADE PUBLICATIONS

Duntley Universal Electric Hammer Drill. Chicago Pneumatic Tool Co., Fisher Bldg., Chicago, Ill. Bulletin E-43. Pp. 4. 6x9 in. Illustrated.

Locomotives for Light Road Service. The Baldwin Locomotive Works, Philadelphia, Penn. Record No. 84. Pp. 32. 6x9 in. Illustrated.

Lubrication and Casings for Silent Chain Drives. Link-Belt Co., 39th St. and Stewart Ave., Chicago, Ill. Booklet No. 286. Pp. 8. 6x9 in. Illustrated.

Pumping Engines. Allis-Chalmers Manufacturing Co., Milwaukee, Wis. Bulletin No. 1637. Pp. 74. 8x10½ in. Illustrated.

Burd Piston Ring Directory.—Burd High Compression Ring Co., Rockford, Ill. 1916 Edition of Directory of Piston-Ring Sizes for Automobiles, Trucks, Tractors, Engines, etc. Pp. 180. 4½x6½ in.

Pelton-Doble Centrifugal Pumps. The Pelton Water Wheel Co., San Francisco, Calif. Bulletin No. 9. Pp. 8. 6x9 in. Illustrated.

Tractors—The Holt Mfg. Co., Peoria, Ill. Bulletin C-106. Pp. 24. 7x10 in. Describes The Caterpillar "Forty Five" type of tractor and its use in road work and hauling.

SEWER SYSTEM, CHICAGO, ILL.

Evanston Intercepting Sewer

Bids received by Sanitary District of Chicago for Evanston Intercepting Sewer, Contract No. 1 from (A) Nash-Dowdle Co., Chicago; (B) Byrne Bros. Dredging and Engineering Co., Chicago; (C) Nash Bros. Chicago. The item bids were as follows:

	A	B	C
5,106 lin.ft. concrete sewer, 10 ft., Lake St.	$35.00	$49.50	$35.25
5,106 lin.ft. brick and concrete sewer, 10 ft., Lake St.	39.00	60.00	39.75
1,895 lin.ft. concrete sewer, 10 ft. tunnel, Lake St.	61.00	72.00	62.00
1,895 lin.ft. brick and concrete sewer, 10 ft. tunnel, Lake St.	61.00	75.60	62.00
964 lin.ft. concrete sewer, 7½ ft., Sherman Ave.	24.75	34.50	25.00
964 lin.ft. brick sewer, 7½ ft., Sherman Ave.	26.00	39.50	26.00
1,990 lin.ft. concrete sewer, 7 ft. Orrington Ave.	21.50	33.50	21.00
1,990 lin.ft. brick sewer, 7 ft., Orrington Ave.	23.00	36.50	23.00
1,106 lin.ft. concrete sewer, 6 ft. tunnel, Lake St.	29.00	44.90	30.00
1,106 lin.ft. brick sewer, 6 ft. tunnel, Lake St.	29.00	52.00	30.00
1,300 lin.ft. concrete sewer, 6 ft. open cut, Lake St.	18.00	25.00	18.50
1,300 lin.ft. brick sewer, 6 ft. open cut, Lake St.	20.00	36.00	20.00
1,300 lin.ft. segmental block sewer, 6 ft., open cut, Lake St.	.....	29.00	.....
1,300 lin.ft. reinforced concrete pipe sewer, 6 ft. open cut, Lake St.	.....	29.50	.....
3,677 lin.ft. concrete sewer, 6 ft. Elmwood Ave.	17.00	26.00	17.50
3,677 lin.ft. brick sewer, 6 ft., Elmwood Ave.	19.00	29.50	19.25
3,677 lin.ft. segmental block sewer, 6 ft. Elmwood Ave.	.....	30.00	.....
3,677 lin.ft. reinforced concrete pipe sewer, 6 ft. Elmwood Ave.	.....	31.00	.....
3,758 lin.ft. concrete sewer, 5 ft., Lake Front	11.50	19.00	11.60
3,758 lin.ft. brick sewer, 5 ft., Lake Front	12.75	23.00	12.90
3,758 lin.ft. segmental block sewer, 5 ft., Lake Front	.....	22.00	.....
3,758 lin.ft. reinforced concrete pipe sewer, 5 ft., Lake Front	.....	24.00	.....
1,645 lin.ft. concrete sewer, 4½ ft., Lake Front	12.00	20.00	12.25
1,645 lin.ft. brick sewer, 4½ ft., Lake Front	13.50	23.00	13.75
1,645 lin.ft. segmental block sewer, 4½ ft. Lake Front	.....	23.00	.....
1,645 lin.ft. reinforced concrete pipe sewer, 4½ ft., Lake Front	.....	24.00	.....
2,385 lin.ft. concrete sewer, 4½ ft., Main St., Sherman Ave., Washington St. and Custer Ave.	12.00	21.00	12.00
2,385 lin.ft. brick sewer, 4½ ft., Main St., Sherman Ave., Washington St., and Custer Ave.	13.50	24.00	13.25
2,385 lin.ft. segmental block sewer, 4½ ft., Main St., Sherman Ave., Washington St. and Custer Ave.	.....	25.00	.....
2,385 lin.ft. reinforced concrete pipe sewer 4½ ft., Main St., Sherman Ave., Washington St. and Custer Ave.	.....	25.00	.....
3,989 lin.ft. concrete sewer, 4½ ft., Emerson St.	12.00	19.00	12.25
3,989 lin.ft. brick sewer, 4½ ft., Emerson St.	13.50	22.00	13.75
3,989 lin.ft. segmental block sewer, 4½ ft., Emerson St.	.....	23.00	.....
3,989 lin.ft. reinforced concrete pipe sewer, 4½ ft., Emerson St.	.....	23.00	.....
1,181 lin.ft. concrete sewer, 4 ft., Custer Ave.	9.00	17.00	9.10
1,181 lin.ft. brick sewer, 4 ft., Custer Ave.	10.50	19.00	10.75
1,181 lin.ft. segmental block sewer, 4 ft., Custer Ave.	.....	20.00	.....
1,181 lin.ft. reinforced concrete pipe, 4 ft. Custer Ave.	.....	20.00	.....
200 lin.ft. concrete sewer, 4 ft., Lake Front	10.00	17.00	10.25
200 lin.ft. brick sewer, 4 ft., Lake Front	11.50	19.00	11.90
200 lin.ft. segmental block sewer, 4 ft., Lake Front	.....	20.00	.....
200 lin.ft. reinforced concrete pipe sewer, 4 ft., Lake Front	.....	20.00	.....
1,304 lin.ft. concrete sewer, 3½ ft., Custer Ave.	8.25	13.00	8.50
1,304 lin.ft. brick sewer, 3½ ft., Custer Ave.	9.75	15.00	9.75
1,304 lin.ft. segmental block sewer, 3½ ft., Custer Ave.	.....	16.00	.....
1,304 lin.ft. reinforced concrete pipe sewer, 3½ ft. Custer Ave.	.....	16.00	.....
3,890 lin.ft. concrete sewer, 3½ ft., Lake Front	9.00	17.00	9.25
3,890 lin.ft. brick sewer, 3½ ft., Lake Front	10.25	20.00	10.50
3,890 lin.ft. segmental block sewer, 3½ ft., Lake Front	.....	21.00	.....
3,890 lin.ft. reinforced concrete pipe sewer, 3½ ft., Lake Front	.....	21.00	.....
1,302 lin.ft. concrete sewer, 3 ft., Custer Ave.	6.00	11.00	6.00
1,302 lin.ft. brick sewer, 3 ft., Custer Ave.	7.50	13.00	7.50
1,302 lin.ft. segmental block sewer, 3 ft., Custer Ave.	.....	14.00	.....
1,302 lin.ft. reinforced concrete pipe sewer, 3 ft., Custer Ave.	.....	14.00	.....
2,140 lin.ft. tile pipe sewer, 24 in., Lake Front	5.00	6.50	5.00
2,140 lin.ft. reinforced concrete pipe sewer, 24 in., Lake Front	.....	8.00	.....
294 lin.ft. double deck sewer, Lake St.	64.00	63.00	65.00
290 lin.ft. concrete sewer, 5x5.75 ft., Lake Front	15.60	22.00	15.25
290 lin.ft. brick sewer, 5x5.75 ft., Lake Front	17.00	25.00	17.25
750 lin.ft. concrete manholes, open cut	6.00	8.00	6.00
750 lin.ft. brick manholes, open cut	6.00	10.00	6.00
165 lin.ft. concrete manholes, tunnel	10.00	10.00	8.00
165 lin.ft. brick manholes, tunnel	10.00	12.00	8.00
Outfall at Lake St. (Lump sum)	6,500.00	6,000.00	6,700.00
Outfall at Emerson St. (Lump sum)	3,000.00	7,500.00	3,300.00
Controlling chamber on Lake Front (Lump sum)	700.00	1,500.00	700.00
Junction at Lake St. and Elmwood Ave. (Lump sum)	4,000.00	300.00	4,200.00
Connection at Lake St. and Sheridan Rd. (Lump sum)	250.00	300.00	250.00
Crossing under C. & N. W. Ry. and C. M. & St. P. Ry., Lake St. (Lump sum)	14,500.00	4,000.00	17,000.00
Crossing under C. & N.W. Ry., and C. M. & St. P. Ry., near Main St., in tunnel (Lump sum)	6,000.00	7,000.00	6,500.00
Crossing under C. & N. W. Ry., and C. M. & St. P. Ry., near Main St., compressed air work (Lump sum)	$6,000.00	$11,000.00	$9,000.00
Crossing under C. & N. W. Ry., Mayfair Division, Lake St. (Lump sum)	1,000.00	4,500.00	900.00
Crossing under C. & N. W. Ry., Mayfair Division, Emerson St. (Lump sum)	7,000.00	1,300.00	8,000.00
Crossing under Evanston Ry., Lake St. (Lump sum)	900.00	1,500.00	850.00
Crossing under Evanston Ry., Main St. (Lump sum)	200.00	1,500.00	250.00
Sewer crossing at Lake St. and Dodge Ave. (Lump sum)	500.00	350.00	600.00
Sewer crossing at Lake St. and Wesley Ave. (Lump sum)	250.00	350.00	300.00
Sewer crossing at Lake St. and Maple Ave. (Lump sum)	250.00	350.00	300.00
Sewer crossing at Lake St. and Elmwood Ave. (Lump sum)	300.00	300.00	300.00
700 cu.yd. excavation for special manholes	1.50	1.00	2.00
300 cu.yd. concrete masonry for special manhole	15.00	15.00	16.00
300 cu.yd. brick masonry for special manholes	15.00	18.00	16.00
60 cu.yd. rubble stone paving	4.60	3.00	4.25
100 lin.ft. laying 18-in. tile pipe	3.00	2.50	3.50
800 lin.ft. laying 12-in. tile pipe	1.50	2.20	1.60
7,000 lin.ft. laying 9-in. tile pipe	1.00	2.00	1.00
50 lin.ft. laying 6-in. tile pipe	1.00	1.50	1.00
275 lin.ft. laying 24-in. tile pipe	3.00	4.00	4.00
282 lin.ft. tile pipe sewer, 24 in., Davis St.	14.00	10.00	15.00
500 lin.ft. tile pipe sewer, 18 in., Davis St.	14.00	8.00	15.00
1,415 lin.ft. tile pipe sewer, 18 in., Chicago Ave. and Lake St.	3.00	2.50	4.00
410 lin.ft. tile pipe sewer, 15 in., Dempster St.	3.00	2.50	4.00
437 lin.ft. tile pipe sewer, 18 in., Cook St.	3.00	2.50	4.00
550 lin.ft. tile pipe sewer, 18 in., near Main St.	5.00	2.50	5.50
140 lin.ft. removal of water pipe, 12 in.	1.00	1.00	1.25
500 lin.ft. removal of water pipe, 10 in.	1.00	1.00	1.05
50 lin.ft. removal of water pipe, 6 in.	.80	1.00	1.00
850 lin.ft. removal of water pipe, 4 in.	.50	1.00	.80
180 lin.ft. laying water pipe, 12 in.	1.50	4.00	1.75
630 lin.ft. laying water pipe, 10 in.	1.50	4.00	1.75
50 lin.ft. laying water pipe, 6 in.	1.25	3.50	1.50
900 lin.ft. laying water pipe, 4 in.	.90	3.00	1.25
2 gate valves, 12 in.	40.00	60.00	39.00
2 gate valves, 10 in.	38.00	50.00	39.00
1 gate valve, 6 in.	20.00	20.00	22.00
2 gate valves, 4 in.	10.00	12.00	12.00
5 gate valve boxes	4.00	7.00	4.50
30 manholes on tile sewers	45.00	50.00	50.00
25 catch basins	50.00	60.00	50.00
50 lin.ft. tile pipe for future connections, 24 in.	2.00	2.50	2.00
50 lin.ft. tile pipe for future connections, 18 in.	1.00	2.00	1.50
100 lin.ft. tile pipe for future connections, 12 in.	1.00	1.50	1.00
50 lin.ft. tile pipe for future connections, 9 in.	.75	1.00	.65
500 house slants, 6 in.	.75	.90	.65
175 making water service connections	10.00	12.00	11.00
100 lin.ft. relaying water service pipes	1.25	1.50	1.40
300,000 lb. steel sheet piling	.05	.05	.06
50,000 lb. reinforcing steel	.05	.05	.06
5,000 lb. structural steel	.05	.07	.06
50,000 lb. cast iron	.05	.06	.06
1,000 lin.ft. additional piling furnished	.30	.30	.35
1,000 lin.ft. additional piling driven	.30	.30	.35
5 M ft. b.m. cribwork on piling	50.00	60.00	65.00
1 M ft. b.m. sheeting	20.00	20.00	20.00
1 M ft. b.m. plank foundation	25.00	25.00	25.00
5 cu.yd. additional excavation, earth, in open cut	.75	.75	.75
5 cu.yd. additional excavation, earth, in tunnel	3.00	3.00	3.00
5 cu.yd. additional excavation, rock	3.00	3.00	3.00
5 cu.yd. additional concrete, class A	8.00	8.00	8.00
5 cu.yd. additional concrete, class B, in open cut	7.50	7.50	7.50
5 cu.yd. additional concrete, class B, in tunnel	9.50	9.50	9.50
5 cu.yd. additional concrete, class C, in open cut	7.00	7.00	7.00
5 cu.yd. additional concrete, class C, in tunnel	9.00	9.00	9.00
5 cu.yd. additional brickwork, in open cut	9.00	9.00	9.00
5 cu.yd. additional brickwork, in tunnel	11.00	11.00	11.00
Extended totals concrete alternative	$841,630	$1,194,770	$868,517
Extended totals brick alternative	$904,347	$1,354,413	$932,445
Extended totals segmental block alternative	.....	$1,365,444	.....
Extended totals reinforced concrete alternative	.....	$1,382,142	.....

SEWER SYSTEM, CHICAGO, ILL.

Niles Center Sewer Outlet

Bids received by Sanitary District of Chicago Sept. 14 for constructing Niles Center Sewer Outlet from (A) T. P. Garland, Chicago; (B) Marquette Construction Co., Chicago; (C) W. F. Cummings, Chicago; U. S. Dredge and Dock Co., Chicago, $36,649; J. V. McGovern, Chicago, $37,163; J. Healey, Chicago, $36,923; H. J. McNichols Co., Chicago, $45,293. The item bids were as follows:

	A	B	C
10,000 lin.ft. 20-in. sewer	$2.05	$2.75	$2.65
30 manholes	60.00	50.00	100.00
Sewer outfall (lump sum)	200.00	300.00	1,220.00
Connection to Niles Center sewer (lump sum)	1,128.00	1,200.00	1,815.00
8,000 lb. reinforcing steel	.07	.06	.07
5 M ft. b.m. sheeting	20.00	20.00	20.00
5 M ft. b.m. plank for foundations	25.00	25.00	25.00
5 cu.yd. additional excavation, earth	.75	.75	.75
5 cu.yd. additional excavation, rock	3.00	3.00	3.00
5 cu.yd. additional concrete, Class A	8.00	8.00	8.00
5 cu.yd. additional concrete, Class B	7.00	7.00	7.00
5 cu.yd. additional brickwork	9.00	9.00	9.00
Extended totals	$24,551	$31,343	$33,458

Robert C. Clifford, who for the past 4 years has been District Sales Manager of the United States Cast Iron Pipe and Foundry Co., is now associated with the Walter A. Zelnicker Supply Co., St. Louis, Mo., in charge of the Rail Department.

PAVING, NEW YORK, N. Y.
(Borough of Manhattan)

Bids received by Borough President Sept. 12 for paving portion of 125th St. from (A) Asphalt Construction Co.; (B) Uvalde Asphalt Paving Co.; (C) Barber Asphalt Paving Co.; Sicilian Asphalt Paving Co., $52,894; Cleveland Trinidad Paving Co., $58,619; Aztec Asphalt Co., $59,388. The item bids of the 3 lowest bidders were as follows:

	A	B	C
31 sewer manhole heads and covers	$15.00	$15.00	$18.00
10 sewer manhole covers	4.00	3.50	5.00
10 sewer manhole rings	3.00	2.50	5.00
11 water manhole heads and covers	16.00	15.00	15.00
4,880 lin.ft. new curb	1.40	1.40	1.40
100 lin.ft. new granite corner curb	2.25	1.90	2.00
50 lin.ft. old curb	.35	.35	.60
50 sq.ft. concrete sidewalk, Class A	.25	.50	.50
30 lin.ft. platform flag cut to line	.70	.50	.50
10 lin.ft. new granite header	.90	1.10	1.00
10 lin.ft. temporary header	.65	.60	1.00
3 cu.yd. brick masonry	12.00	15.00	15.00
2,870 cu.yd. concrete	5.00	5.00	5.70
15,750 sq.yd. sheet asphalt	1.28	1.485	1.20
100 sq.yd. sheet asphalt No. 2	2.00	1.50	1.20
1,450 sq.yd. sheet asphalt in R.R. area	1.25	1.485	1.20
240 concrete yard in R.R. area	5.00	5.00	5.70
Extended totals	$45,566	$48,849	$46,402

RAPID TRANSIT SYSTEM, NEW YORK, N. Y.
Track Installation

Bids received by Public Service Commission, 120 Broadway, for installing tracks on Seventh Avenue Branch from (A) ENGEL & HEVENOR, 220 Broadway (awarded contract); (B) T. H. Reynolds Contracting Co., Inc., (C) Thomas Crimmins Contracting Co. The item bids were as follows:

	A	B	C
25 cu.yd. concrete masonry in place	$10.00	$13.00	$8.00
20 cu.yd. concrete masonry removal	25.00	28.00	30.00
50 tons c.-i. pipe, tees and elbows furnished and delivered	60.00	90.00	60.00
10 tons c.-i. hand hole frames and covers furnished and delivered	80.00	90.00	95.00
21,000 anticreepers installed	.10	.10	.10
59,000 lin.ft. Type I Track, tang. and curves over 2,000 ft. radius	.89	.95	1.10
10,700 lin.ft. Type I Track, curves of 2,000 to 701 ft. radius	1.44	1.20	1.64
8,000 lin.ft. Type I Track, curves under 701 ft. radius	1.66	1.40	1.66
23,500 lin.ft. Type II Track, tang. and curves over 2,000 ft. radius	4.02	4.80	4.05
850 lin.ft. Type II Track, curves of 2,000 to 701 ft. radius	5.01	5.00	4.59
100 lin.ft. Type II Track, curves under 701 ft. radius	5.17	5.20	4.61
12,000 lin.ft. Type IV Track, tang. and curves over 2,000 ft. radius	2.02	2.80	2.42
265 lin.ft. Type IV Track, curves of 2,000 to 701 ft. radius	2.60	3.00	3.00
1,600 lin.ft. Type IV Track, curves under 701 ft. radius	2.80	3.20	3.02
Installing special portion 140 complete	7.56	8.30	7.90
Installing special portion 141 complete	5.12	7.50	5.20
Installing special portion 142 complete	18.00	14.30	13.08
Installing special portion 143 complete	5.42	7.50	5.60
Installing special portion 144 complete	16.20	14.30	11.40
Installing special portion 145 complete	10.12	12.30	10.20
Installing special portion 147 complete	6.01	7.50	6.20
Installing special portion 148 complete	5.89	7.50	6.10
Installing special portion 149 complete	5.69	7.50	6.00
Installing special portion 153 complete	5.96	7.50	4.50
Installing special portion 154 complete	13.14	13.20	11.55
Installing special portion 155 complete	13.18	13.20	11.60
Installing special portion 156 complete	5.96	7.40	6.20
Installing special portion 157 complete	5.12	7.40	5.30
Installing special portion 161 complete	6.01	9.10	6.10
Extended totals	$229,440	$260,010	$248,475

BARGE CANAL, ALBANY, N. Y.
Contract No. 31

Bids received by W. W. Wotherspoon, State Supt. Pub. Wks., for Barge Canal work, Contract No. 31, constructing a dock wall and an approach at Lyons from (A) LUPFER & REMICK, Buffalo (awarded contract); (B) Chesley, Earl & Heimbach, Inc., Buffalo; (C) J. A. La Porte, Mechanicsville; State Highway Construction Co., Beacon, $55,495; E. Brown Baker, Herkimer, $57,833; Walsh Construction Co., Davenport, Iowa, $61,874. The item bids were as follows:

	A	B	C
Clearing (lump sum)	$25.00	$1.00	$25.00
Cofferdams, pumping, bailing and draining (lump sum)	27,000.00	15,500.00	24,000.00
15,400 cu.yd. excavation	.10	.60	.45
10,400 cu.yd. forming embankment	.05	.05	.05
6.2 M ft. b.m. sawed lumber	70.00	80.00	50.00
500 lin.ft. wooden fence	.30	.30	.30
2,800 cu.yd. second-class concrete	7.00	8.40	6.90
1,620 lb. c.i. pipe	.04	.035	.035
1,220 lin.ft. 4-in. drain tile	.12	.12	.12
220 lb. structural steel	.08	.07	.07
4,100 lb. iron castings, plain	.06	.05	.05
500 lin.ft. malleable c.i. nosing	1.30	1.30	1.30
82 fender fastenings	1.50	1.50	1.50
70 lin.ft. metal curb protection	.35	.35	.35
650 cu.yd. gravel surfacing	1.25	1.50	1.00
500 lin.ft. w.i. pipe railing	.60	.60	.60
Extended totals	$51,653	$51,923	$53,426

Loan for Extension of Colombian Railway—Washington, D. C., Aug. 26.—The Colombian Congress has authorized the Government to contract one or more loans for a total sum not to exceed $400,000, to be used in the extension of the Tolima Ry. to Ibague. The authorization as published in the "Diario Oficial" specifies that the loan will be guaranteed by a mortgage on the railway, including the part already constructed. The usual interest rates and the amortization will be covered by the proceeds of the railway, secured by 2% of the proceeds of the Atlantic custom-houses.

SEWERS AND SEWAGE-DISPOSAL WORKS, RIDGEFIELD PARK, N. J.

Bids were received Aug. 1 by the Board of Commissioners for the construction of sewers and sewage-disposal works from (A) CARRINGTON CONSTRUCTION CO., Passaic (awarded contract); (B) C. S. Edwards, Jersey City; (C) J. F. Shanley Co., Newark; J. E. Bunting Co., $106,951; Day & Zimmerman, $116,829; Heyman & Goodman, $121,114. The item bids of the 3 lowest bidders were as follows:

	A	B	C
1,300 cu.yd. earth excavation, Class A	$1.45	$2.25	$2.25
2,100 cu.yd. earth excavation, Class B	1.45	1.30	1.00
100 cu.yd. rock excavation	4.00	7.00	3.50
11,600 cu.yd. embankment	1.25	1.25	1.25
860 cu.yd. concrete, Class A	11.50	12.75	12.50
60 cu.yd. concrete, Class B	9.00	9.00	11.20
62,000 lb. steel reinforcement	.042	.07	.06
10 M ft. b.m. lumber, in place	70.00	50.00	60.00
10 M ft. b.m. sheeting left in place	40.00	50.00	50.00
3,150 lin.ft. piles, exclusive of railroad crossing	.42	.48	.45
3,510 lin.ft. piles, at railroad crossing	.55	.65	.50
60 cu.yd. ballast	2.60	3.00	2.20
65 sq.yd. stone protection	2.50	2.00	1.60
2 anchor piers	75.00	170.00	170.00
46 concrete posts with platforms	25.00	25.00	30.00
66 concrete posts without platforms	20.00	20.00	21.00
2 sludge pump houses	950.00	900.00	935.00
2 sludge pumps with engines and appurtenances	1,300.00	1,600.00	1,400.00
1,760 lin.ft. 3-in. c.i. pipe, hub and spigot, Class C	.90	1.00	1.00
2,040 lin.ft. 6-in. c.i. pipe, flanged, Class B	1.25	1.23	1.30
342 lin.ft. 6-in. c.i. pipe, flanged, Class C	3.35	1.35	1.50
60 lin.ft. 8-in. c.i. pipe, flanged, Class A	2.00	1.80	1.50
395 lin.ft. 8-in c.i. pipe, flanged, Class C	3.50	2.00	1.75
50 lin.ft. 12-in. c.i. pipe, flanged, Class A	4.00	2.50	2.70
36 lin.ft. 12-in. c.i. pipe, hub and spigot, Class A	3.00	3.00	2.80
168 lin.ft. 24-in. c.i. pipe, hub and spigot, Class B	6.00	8.00	8.00
96 lin.ft. 24-in. c.i. pipe, flexible jointed, Class B	12.00	9.00	12.00
6 1-in. brass compression bibbs	3.00	3.00	3.00
2 1½-in. brass stop cocks	5.00	5.00	4.50
4 3-in. gate valves with valve box	8.50	20.00	18.50
18 6-in. gate valves with attached operating keys	20.00	22.00	27.00
2 8-in. gate valves with valve boxes	35.00	30.00	37.00
6 8-in. gate valves with special steme and operating stands	42.50	62.00	45.00
2 hydrants with host cases and connections	35.00	45.00	35.00
3 6-in. expansion joints	35.00	55.00	37.00
13 6-in. circular sluice gates	20.00	20.00	18.50
5 8-in. automatic flow regulators	75.00	65.00	75.00
4 12-in. automatic flow regulators	100.00	90.00	100.00
12 stop planks	7.00	4.00	3.50
23 weirs	18.00	8.00	9.00
Structural steel, exclusive of railroad crossing (lump sum)	285.00	450.00	500.00
750 lin.ft. 8-in. vitrified pipe sewers, complate, no cut	.50	.45	.66
2,018 lin.ft. 8-in. vitrified pipe sewers, complete, 0 to 6 ft. deep	.75	.70	.80
4,212 lin.ft. 8-in. vitrified pipe sewers, complete, 6 to 10 ft. deep	1.45	1.30	1.10
885 lin.ft. 8-in. vitrified pipe sewers, complete, 10 to 14 ft. deep	1.90	2.15	2.25
10 lin.ft. 8-in. vitrified pipe sewers, complete, 14 to 18 ft. deep	2.70	3.25	3.50
10 lin.ft. 8-in. vitrified pipe sewers, complete, 18 to 22 ft. deep	3.50	3.50	3.75
40 lin.ft. 10-in. vitrified pipe sewers, complete, 6 to 10 ft. deep	1.60	1.25	1.20
10 lin.ft. 10-in. vitrified pipe sewers, complete, 10 to 14 ft. deep	2.05	2.25	2.30
10 lin.ft. 10-in. vitrified pipe sewers, complete, 14 to 18 ft. deep	2.60	2.40	2.40
10 lin.ft. 10-in. vitrified pipe sewers, complete, 18 to 22 ft. deep	4.00	3.60	3.80
265 lin.ft. 12-in. vitrified pipe sewers, complete, 0 to 6 ft. deep	1.00	1.00	1.00
425 lin.ft. 12-in. vitrified pipe sewers, complete, 6 to 10 ft. deep	1.70	1.25	1.25
1,200 lin.ft. 12-in. vitrified pipe sewers, complete, 10 to 14 ft. deep	2.17	2.35	2.25
600 lin.ft. 12-in. vitrified pipe sewers, complete, 14 to 18 ft. deep	2.70	3.50	3.70
195 lin.ft. 15-in. vitrified pipe sewers, complete, 0 to 6 ft. deep	1.25	1.00	1.40
715 lin.ft. 15-in. vitrified pipe sewers, complete, 6 to 10 ft. deep	2.00	1.75	1.80
670 lin.ft. 15-in. vitrified pipe sewers, complete, 10 to 14 ft. deep	2.65	2.50	2.60
205 lin.ft. 15-in. vitrified pipe sewers, complete, 14 to 18 ft. deep	3.30	3.25	3.20
255 lin.ft. 15-in. vitrified pipe sewers, complete, 18 to 22 ft. deep	4.15	4.00	4.20
210 lin.ft. 15-in. vitrified pipe sewers, complete, 22 to 24 ft. deep	4.75	4.75	5.00
1,130 lin.ft. 18-in. vitrified pipe sewers, complete, 0 to 6 ft. deep	1.52	1.25	1.35
334 lin.ft. 18-in. vitrified pipe sewers, complete, 6 to 10 ft. deep	2.38	2.30	2.20
84 lin.ft. 18-in. vitrified pepe sewers, complete, 10 to 14 ft. deep	2.85	3.50	3.15
1,000 lin.ft. 24-in. vitrified pipe sewers, complete, no cut	1.90	1.75	2.20
2,050 lin.ft. 24-in. vitrified pipe sewers, complete, 0 to 6 ft. deep	2.65	2.50	2.50
Concrete sewer and appurtenances at railroad crossing, complete, except pile foundation (lump sum)	3,800.00	3,500.00	3,750.00
1,600 lin.ft. vitrified pipe risers	.75	.90	.50
500 lb. bituminous joint compound in place	.05	.10	.10
68 manholes	70.00	75.00	85.00
7 storm water by-passes	275.00	225.00	300.00
77 connections altered, house drain	15.00	5.00	5.00
Altering existing sewers (lump sum)	400.00	600.00	300.00
Extended totals	$101,278	$102,005	$102,365

Henrici, Kent & Lowry, Consult. Engr., announces the removal of its offices to 222 Commerce Bldg., Kansas City, Mo.

J. E. A. Retziaff, 45 Broadway, New York, N. Y., importing and exporting firm, announces that it would be pleased to receive catalogs from all manufacturers who are prepared to fill orders for tropical export.

RAPID TRANSIT SYSTEM, NEW YORK, N. Y.

Station Finish

Bids received by Public Service Commission, 120 Broadway, Sept. 13, for station finish on 3 stations of Broadway-Fourth Avenue Rapid Transit R.R. from (A) SERBER-STANDER CO., 118 East 28th St. (awarded contract); (B) Louis Wechsler; (C) J. B. Roberts & Co.; Thomas Dwyer, $154,849; Charles Meads & Co., $169,517; T. J. Waters Co., $173,991. The item bids of the 3 lowest bidders were as follows:

	A	B	C
656 sq.ft. tile w.g., 3x6 in., straight	$0.66	$0.62	$0.65
60 sq.ft. tile w.g., 3x6 in., 1-in. radius comb.	1.38	1.50	1.38
390 sq.ft. tile w.g., 3x6 in., 2½-in. radius comb.	1.55	1.60	1.56
10 sq.ft. tile w.g., 3x6 in., 20-in. radius comb.	1.30	1.50	1.20
50,100 sq.ft. tile w.g., 4¼x4¼ in., straight	.66	.64	.65
120 sq.ft. tile w.g., 4¼x4¼, 1-in. radius comb.	1.38	1.50	1.38
1,900 sq.ft. tile w.g., 4¼x4¼ in., 2½-in. radius comb.	1.54	1.60	1.54
135 sq.ft. tile w.g., 4¼x4¼ in., 20-in. radius comb.	1.21	1.25	1.20
10 lin.ft. tile bead, w.g., 1-in. radius	.50	.60	.50
2,410 sq.ft. tile w.p. vit. col., straight	1.15	1.20	1.15
35 sq.ft. tile w.p. vit. col., 1-in. radius comb.	1.95	2.00	2.00
45 sq.ft. tile w.p. vit. col., 2½-in. radius comb.	2.20	2.40	2.20
10 sq.ft. tile w.p. vit. col., 20-in. radius comb.	1.70	1.88	1.65
4,900 sq.ft. Mosaic band, tile, col.	1.50	1.52	1.48
875 sq.ft. Mosaic and tile tablets	1.76	1.80	1.76
210 initial letter plaques, station walls	1.93	2.00	2.00
175 sq.ft. Mosaic and tile dest. tablets, col.	1.93	2.00	1.93
14,540 sq.yd. plastering arches, (b) concrete	.46	.79	.73
1,780 sq.yd. plastering flats, brick or hollow tile	.46	.56	.60
5,180 sq.yd. plastering flats, concrete	.46	.56	.60
35 sq.yd. plastering flats, metal lath	.84	1.00	1.00
5,600 sq.ft. cement work, wainscots or bases	.24	.12	.135
57,150 sq.ft. cement work, 3-in. floor finish	.12	.12	.125
50 sq.ft. cement work, finish on concrete brick or hollow tile	.09	.28	.15
15 sq.ft. cement work, panels for signs	.12	.30	.30
315 cu.ft. concrete work, copings	1.20	1.15	1.10
10 cu.yd. concrete work, foundations	9.20	7.00	8.25
65 cu.ft. concrete work, reinforced	.85	1.25	.60
120 cu.ft. concrete work, protective	1.00	1.25	.50
340 cu.ft. concrete work, street landings	.40	.35	.30
2,300 sq.ft. concrete work, tooling and rubbing	.30	.13	.15
600 lin.ft. concrete stairs, etc., self-supporting stairs	1.15	1.25	1.37
7,000 lin.ft. concrete stairs, etc., supported stairs	.85	.90	.825
2,270 sq.ft. concrete stairs, etc., supported landings	.46	.51	.275
20 cu.ft. concrete stairs, etc., supporting columns	1.50	.75	.60
4,620 sq.ft. concrete stairs, etc., non-slip treads	1.00	.75	.96
2,080 lin.ft. concrete stairs, etc., cement bases	.25	.14	.22
40 lin.ft. concrete stairs, etc., cement finish—exposed sides	.14	.18	.15
480 sq.ft. concrete stairs, etc., cement finish, street landings	.17	.14	.11
4,115 cu.ft. brick masonry, common	.52	.54	.50
5 cu.ft. hollow tile, 2 in.	.88	1.00	.90
9,440 cu.ft. hollow tile, 3 in.	.55	.60	.61
1,620 cu.ft. hollow tile, 4 in.	.44	.50	.50
25 lin.ft. hollow tile, 4½x13-in. flue	.50	.40	.50
920 weep holes	.13	.32	.18
120 anchor straps	.23	.30	.20
20 sq.yd. metal lath, without furring	.75	.75	.80
15 sq.yd. metal lath, with furring	2.00	1.25	1.75
10 ticket booths, type "E"	1,150.00	940.00	880.00
4 doors, type "A"	100.00	80.00	83.00
31 doors, type "D"	80.00	84.00	85.00
30 pair doors, type "G"	50.00	80.00	80.00
3 doors, type "J"	87.00	85.00	93.50
144 sq.ft. doors, type "K"	5.00	6.00	7.00
1 each doors, type "Q"	28.00	35.00	33.00
20 sq.ft. doors, type "L"	5.50	6.00	7.00
4 doors, type "P"	33.00	40.00	45.00
10 additional hardware, doorchecks	5.00	4.00	5.35
20 additional hardware, door stops	3.00	3.00	4.15
5 additional hardware, rubber covered chains	2.00	2.00	2.00
10 additional hardware, push plates	3.50	3.00	3.75
10 additional hardware, door pulls	4.50	4.00	4.25
10 pair kick plates	12.00	10.00	10.80
350 lin.ft. railings, type "FS"	3.70	4.05	3.58
50 lin.ft. railings, type "RS"	4.25	5.65	4.12
250 sq.ft. railings, type "GS"	.57	.60	.585
15 lin.ft. railings, type "LS"	3.80	4.25	3.69
115 sq.ft. railings, type "BS"	.78	.80	.66
130 lin.ft. railings, pipe	1.77	2.00	1.93
60 lin.ft. oak seats	6.50	4.00	2.00
100 lin.ft. gates, etc., low sliding	9.45	9.25	9.35
2 gates, etc., exit turnstiles	203.00	200.00	247.50
13 gates, etc., single gate controls	19.55	26.00	22.00
5 gates, etc., c.-i. floor boxes	7.15	8.50	8.80
10 lin.ft. gates, etc., 1½-in. galv. w.-i. pipe	.35	.40	.39
250 lin.ft. gates, etc., 1-in. square steel tubing	.57	.62	.66
15 gate openings, c.-i. gate-posts, etc.	58.65	54.00	82.50
55 sq.ft. frames, enameled sign on low railing	2.35	2.15	2.48
5 sq.ft. frames, enameled sign in high-low grille	2.35	2.25	2.75
115 lin.ft. frames, enameled reflectors, str. approach	2.13	2.25	2.20
520 sq.ft. frames, enameld sign plates	.40	.60	.42
95 sq.ft. frames, enameled direction sign frames	1.70	1.70	1.65
170 lin.ft. street railings, type "K"	8.00	7.25	8.00
275 lin.ft. street railings, type "K"	8.00	7.75	8.00
1,290 sq.ft. sheet metal work, metal ceilings	.44	.30	.44
1,770 lb. steel ladders, etc., steel shapes, lintels	.055	.07	.055
400 lb. steel ladders, etc., miscell. steel shapes	.065	.08	.0675
12 steel ladders, etc., ladders, track-floor to platform	11.50	11.00	13.20
1,000 lb. miscellaneous iron castings	.08	.08	.11
2,300 lin.ft. oak hand rails	.63	.60	.60
3,520 lin.ft. platform edge const., wooden facia	.22	.25	.16
4,300 platform edge const., drilling holes in angle	.25	.33	.25
Rough plumbing, 3 stations (lump sum)	4,600.00	4,266.80	5,750.00
25 plumbing fixtures, water-closet bowls	57.50	45.00	53.00
15 plumbing fixtures, lavatories—stations	40.60	27.00	37.50
11 plumbing fixtures, urinals	92.00	80.00	84.00
5 plumbing fixtures, slop sinks—closets	80.00	65.00	73.00
32 plumbing fixtures, floor drains	$23.00	$14.00	$12.00
560 sq.ft. structural glass, ¾-in. wainscoting	1.70	1.65	1.59
765 sq.ft. structural glass, ¾-in. pipe chamber partition	1.90	1.85	1.82
280 sq.ft. structural glss, ¾-in. shelves	1.75	1.70	1.65
610 sq.ft. structural glass, ¾-in. stall partitions	2.00	2.00	1.93
55 sq.ft. structural glass, 1-in. floor slab	3.50	3.40	3.30
160 lin.ft. structural glass, curved, corners and angles	1.70	1.65	1.59
60 c.-i. work in toilet, posts	12.35	9.60	13.20
165 lin.ft. c.-i. work in toilet, top rails	1.26	1.15	1.65
18 c.-i. work in toilet, register faces and frames, pipe chamber partitions	12.35	10.25	12.10
5 c.-i. work in toilet, c.-i. vent louvres	15.20	13.50	16.50
3,960 lb. steel supporting sections	.10	.09	.0775
1,600 lin.ft. conduits, ¾-in.	.18	.16	.165
4,065 lin.ft. conduits, 1-in.	.20	.21	.1875
1,000 lin.ft. conduits, 1¼-in.	.30	.27	.35
240 lin.ft. conduits, 2-in.	.53	.37	.42
150 lin.ft. conduits, 2½-in.	.63	.48	.54
100 lin.ft. conduits, 3-in.	.84	.60	.64
375 lin.ft. conduits, ¾-in. flexible	.18	.18	.165
30 special conduit fittings—removable cover	1.00	1.00	2.20
30 c.-i. outlet boxes	.50	.50	.45
1 c.-i. pull boxes, 12x12x6-in.	4.60	5.00	3.08
5 c.-i. pull boxes, 12x6x4-in.	8.50	8.50	2.31
42 c.-i. pull boxes, 6x6x4-in.	1.55	1.50	1.98
10 c.-i. pull boxes, 4x4x4-in.	.92	1.00	.88
4 c.-i. pull boxes, 8x8x4-in.	1.84	2.50	2.20
16 c.-i. heater boxes	12.00	11.00	11.80
4 steel panel—board boxes, 32x5¾x49 to 60-in.	26.50	20.00	15.40
3 steel panel, board boxes, 32x5¾x37 to 48 in.	23.00	15.50	13.20
1 steel panel, board boxes, 32x5¾x25 to 36 in.	21.20	12.50	12.10
3 steel switchboard boxes	34.50	36.00	23.10
25,400 sq.ft. painintg, 2 coats, iron and steel	.025	.02	.0275
47,900 sq.ft. painting, 3 coats, iron and steel	.03	.0275	.03
198,700 sq.ft. painting, 2 coats plaster, concrete and cement panels	.02	.0175	.0175
287 painting, letters and numerals	.12	.10	.11
Extended totals	$149,324	$149,500	$151,027

HIGHWAY, LAWRENCEBURG, TENN.

Bids were received by Lawrence County Highway Comn., Sept. 20, for constructing the Jackson Military Rd. from (A) BOYD WILLIAMS, McMinnville (awarded contract); (B) Montgomery Perkins Co., San Antonio, Tex.; (C) Healy Construction Co., Meridian, Miss.; A. A. Smith, Mt. Pleasant, $148,157; R. C. Searcy, Columbus, Miss., $148,820; Perry, Brown & Rawlinson, Montgomery, Ala., $156,155; Thomas Worthington, Birmingham, Ala., $156,233; Hicks & Miller, Pontotoc, Miss., $156,985; R. L. Peters, Knoxville, $161,056. The item bids of the 3 lowest bidders were as follows:

	A	B	C
16 acres clearing and grubbing	$60.00	$70.00	$60.00
139,820 cu.yd. earth excavation	.22	.21	.21
11,900 cu.yd. loose rock excavation	.36	.38	.35
780 cu.yd. solid rock excavation	.70	.80	.75
124 lin.ft. 12-in. vitrified pipe	.38	.55	.50
168 lin.ft. 15-in. vitrified pipe	.55	.75	.60
170 lin.ft. 18-in. vitrified pipe	.75	1.07	.80
64 lin.ft. 24-in. vitrified pipe	1.45	1.75	1.30
1,072 lin.ft. 12-in. c.m. pipe	.71	.75	.76
1,238 lin.ft. 15-in. c.m. pipe	.88	.90	.90
502 lin.ft. 18-in. c.m. pipe	1.02	1.15	1.10
224 lin.ft. 24-in. c.m. pipe	1.57	1.74	1.60
164 lin.ft. 30-in. c.m. pipe	1.95	2.05	1.90
100 lin.ft. side drains	.18	.30	.30
320.8 cu.yd. class "A" concrete	9.00	10.50	11.00
715 cu.yd. class "B" concrete	8.25	9.25	10.00
Cu.yd. class "C" concrete	.....	8.50	.....
11.18 cu.yd. class hand rail concrete	13.00	20.00	20.00
29,082 lb. reinforcing steel	.05½	.05½	.04½
2,500 lin.ft. guard railing	.09	.16	.20
200 cu.yd. stripping chert pits	.25	.18	.40
65,700 cu.yd. chert in place complete	1.28	1.31	1.40
20 days foreman force account	3.50	3.50	5.00
50 days teams force account	4.50	4.50	4.50
600 days labor force account	1.65	1.75	1.75
Extended totals	$136,076	$139,021	$144,781

CATSKILL AQUEDUCT, NEW YORK, N. Y.

Contract 178

Bids received by Board of Water Supply Sept. 12 for Contract 178, grouting a portion of Eastview Tunnel of the Catskill Aqueduct from (A) WILLIAM HEYMAN, 15 Exchange Pl., Jersey City (awarded contract); (B) A. L. Guidone & Son, Inc., 52 Vanderbilt Ave.; (C) Lupfer & Remick, Buffalo. The item bids were as follows:

	A	B	C
10 cu.yd. excavating concrete masonry	$20.00	$100.00	$20.00
6,400 bbl. Portland cement	2.60	2.15	3.00
10 cu.yd. concrete masonry	20.00	55.00	30.00
800 lin.ft. drilling holes in rock or masonry	.80	1.95	5.00
700 lin.ft. steel pipe for grouting, etc.	.70	.75	.60
250 connections for grouting	3.00	1.00	1.00
2,000 cu.yd. mixing and placing grout	6.30	15.00	10.00
1,100 tons sand for grout	5.00	3.00	3.00
Cleaning up (lump sum)	1,300	4,500	12,000
Extended totals	$38,320	$55,445	$59,670

Railway Construction by Bolivian Government—The call of the Bolivian Government for bids on the construction of the Potosi-Sucre Ry. has been annulled by a decree of Aug. 1, 1916. No bids having been received, according to the "West Coast Leader," the government has decided to proceed with the construction of the railway through the Public Works Department, using the final surveys made by W. L. Milner. It is stated that funds are available to begin the work of construction, and a loan may be negotiated later, with the constructed portions of the road as security. The Potosi-Sucre Ry. is an extension of the Rio Mulato branch of the Antofagasta & Bolivia Ry.

Asphalt Shingles for Panama—For the roofing of permanent dwelling houses and hospital buildings on the Isthmus, the Panama Canal authorities have placed orders with the Barber Asphalt Paving Co., Philadelphia, for nearly 3,000,000 slate-surfaced asphalt shingles. The factors which lead to this form of roofing are stated as follows: Asphalt shingles are as low in cost as, or lower than corrugated iron; they make a better-looking roof, do not increase the fire risk, save painting and resist the deteriorating effect of sea air.

SPECIAL OPPORTUNITIES SECTION

Contracts To Be Let

Bids received until Oct. 10, 1916.

Bulkhead and Gates

Augusta, Ga., Sept. 25th, 1916.

Sealed proposals addressed to the City Council of Augusta, Georgia, will be received by the River and Canal Commission at Augusta, Ga., until four (4:00) o'clock P.M., Tuesday, October 10th, 1916, for furnishing all necessary outfit, material and labor and constructing complete reinforced-concrete bulkhead and steel gates for water control across Butler's Creek in Richmond County, Georgia, where the flood-protection levee crosses said creek. Foundation will be on piles. Height above foundation, 35 feet; clear span between wing walls, 65 feet; 6 gate openings 8 feet x 15 feet; length wing wall each end, 145 feet; approximate quantities of material—10,350 lineal feet foundation piles, 33,000 feet B.M. sheet-piling (6 inches x 12 inches), 6,000 cubic yards earth excavation, 1,980 cubic yards concrete, and 40 tons reinforcing steel.

Contract wil be let as a whole. Payment in cash on monthly estimates. With bid must be deposited certified check for $500 as a guarantee of good faith. Said deposit will be returned to bidder when contract is executed.

The successful bidder must give construction bond in the sum of $15,000.

The right is reserved to reject any and all bids.

Plans and specifications may be had by prospective bidders on application to the undersigned.

NISBET WINGFIELD,
Chief Engineer,
811 Ellis Street, Augusta, Ga.

Bids received until Oct. 17, 1916.

Barge Canal Work

STATE OF NEW YORK
OFFICE OF SUPERINTENDENT OF PUBLIC WORKS
Albany, Sept. 18th, 1916.

Sealed proposals will be received by the undersigned at his office in the Capitol at Albany, N. Y., until twelve o'clock noon of Tuesday, October 17th, 1916, at which place and hour they will be publicly opened and read, for improving the New York State canals pursuant to the provisions of Chapter 147 of the Laws of 1903, and of the acts amendatory thereof and supplementary thereto, and Chapter 570 of the Laws of 1915, as follows:

1

CONTRACT NO. 19-A.

Erie Canal—Section 11.

For re-dredging Contract No. 19 and incidental work.

Sheets 1 to 13 inclusive.

2

CONTRACT NO. 139.

Oswego Canal—Section 1.

For excavating a channel in the Oswego River from the lower end of Lock No. 8 at Oswego to deep water.

Length 0.19 mile. Sheets 1 and 2.

3

CONTRACT NO. 140.

Champlin Canal—Section 1.

For placing bank protection along the west shore of the Hudson River about five miles north of Waterford, and incidental work.

Sheets 1 and 2.

And for the construction of Barge Canal terminals pursuant to the provisions of Chapter 746 of the Laws of 1911, and of the acts amendatory thereof, as follows:

4

TERMINAL CONTRACT NO. 19.

For dredging, for constructing a new bulkhead wall and a pier, and for repairing two existing piers and a bulkhead at Greenpoint, Brooklyn, N. Y.

Contract plans sheets 1-33.

5

TERMINAL CONTRACT NO. 26.

For constructing a pier and dredging a terminal basin in Lake Champlain at Rouses Point.

Contract plans sheets 1-4.

6

TERMINAL CONTRACT NO. 53.

To construct a dockwall along Dead Creek and around Ohio Basin, to dredge the basin and to construct a bascule bridge across Dead Creek at Ohio street, in the City of Buffalo.

Contract plans sheets 1-36.

Plans may be seen and detailed specifications, engineer's estimate of quantities, proposal blanks, form of contract and bonds required and other information for proposers may be had at the office of the Superintendent of Public Works at Albany, N. Y.; at the office of the Assistant Superintendent of Public Works for the Middle Division at Syracuse, N. Y.; at the office of the Assistant Superintendent of Public Works for the Western Division at Rochester, N. Y., and at the canal office, Spaulding's Exchange, Buffalo, N. Y.

Copies of detailed plans of drawings may be obtained from the State Engineer and Surveyor at Albany, N. Y., upon payment to him of the cost of producing them.

Monthly estimates will be paid of ninety per centum (90 per cent.) of the work done at the contract price. Every proposal for said work must be accompanied by a money deposit in the form of a draft or certified check upon some good banking institution in the city of Albany or New York, issued by a national or state bank (or trust company in the case of terminal contract) in good credit within the state and payable at sight to the Superintendent of Public Works for five per centum (5 per cent.) of the amount of the proposal.

The person whose proposal shall be accepted will be required to execute a contract and furnish bonds within ten days from the date of notice of award delivered to him or them in person or mailed to the address given in the proposal.

Upon execution of the contract and approval of bonds, the certified check or draft will be returned to the proposer unless the same shall have been presented for collection prior to such time, in which case the amount of the deposit will be refunded by the Superintendent of Public Works.

The deposits of bidders other than the one to whom the award of contract shall be made will be returned immediately after the award has been made.

The bond required for the faithful performance of each contract shall be in such sum as shall be fixed by the Superintendent of Public Works, which sum shall not be less than twenty per centum (20 per cent.) of the estimated cost of the work according to the contract price, and an additional bond, known as the labor bond, in the sum of ten per centum (10 per cent.) of the amount of the estimated cost of the work according to the contract price, will be required as security that the contractor will pay in full at least once in each month all laborers employed by him upon the work specified to be done in the contract.

In the event that more than one surety company is offered as surety on said bonds co-insurance only will be accepted.

Each proposal must be addressed to the Superintendent of Public Works, Albany, N. Y., and must be endorsed on the envelope with the name of the construction for which the proposal is made.

Award, if made, will be made to the person or persons whose proposal shall be lowest in cost to the State for doing the work, and which shall comply with all provisions required to render it formal. Before any award shall be made the lowest bidder will be required to satisfy the Superintendent of Public Works of his ability to provide suitable equipment and materials for the proper performance of the work.

The right is reserved to reject all proposals and readvertise and award the contract in the regular manner if, in the judgment of the undersigned, the interests of the State will be enhanced thereby.

W. W. WOTHERSPOON,
Superintendent of Public Works.

Bids received until Oct. 10, 1916.

Notice to Road Contractors

Belvidere, N. J.

Sealed bids or proposals will be received by a Committee of the Board of Chosen Freeholders of Warren County, New Jersey, for the construction of 4.124 miles of bituminous macadam road, known as the Hope-Bridgeville Road, Section No. 1, at the Courthouse in Belvidere, N. J., on Tuesday, October 10, 1916, at 11:30 A.M.

Bids must be accompanied by cash or certified check in the amount of $1,000.00 made payable to H. O. Carhart, County Collector.

Plans and specifications are on file and blank proposals may be obtained at the Hotel at Hope, N. J., with the State Commissioner of Public Roads, Trenton, N. J., and at the office of F. W. Salmon, County Engineer, Netcong, N. J.

Samples of approved materials are on file with the State Road Department and with the County Engineer and will be shown and explained to prospective bidders on request.

Plans and specifications will be furnished by the County Engineer upon the payment of $10.00.

The right is reserved to reject any or all bids.

By order of the Board of Chosen Freeholders. MORRIS L. FAUST,
Clerk.